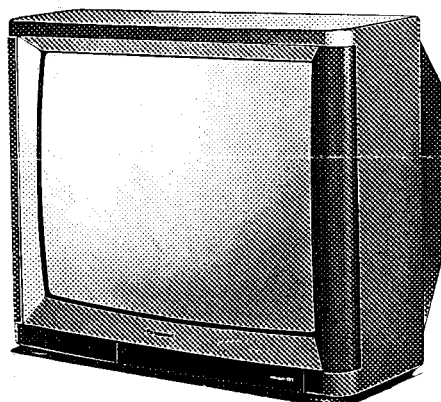


Service Manual



Colour Television

TX-28A1DT

TX-24A1DT

ALPHA-2 Chassis

Specifications (information in brackets refers to TX-24A1DT)

Specifications

Power Source:	220 V AC, 50 Hz
Power Consumption:	150 Watt
Aerial Impedance:	75 Ω unbalanced, Coaxial Type
Receiving System:	PAL-B, G, I SECAM-B, G, L
Receiving Channels:	VHF E2-E12 UHF E21-E69
Intermediate Frequency:	CATV S1-S20 Video 38.9 MHz Sound 33.4 MHz Colour 34.47 MHz (PAL) 34.5 MHz (SECAM) 34.65 MHz (SECAM)
Video/Audio Terminals:	
AV1/21 pin IN	Video 1 Vp-p 75 Ω Audio 0.67 Vrms, 10k Ω
AV1/21 pin OUT	Video 1 Vp-p 75 Ω Audio 0.67 Vrms (100 % modulation) 1k Ω
AV2 S-VHS IN	Luminance 1 Vp-p 75 Ω Chrominance 0.3 Vp-p 75 Ω
AV2/21 pin IN	Video 1 Vp-p 75 Ω Audio 0.67 Vrms, 10k Ω
AV2/21 pin OUT	Video 1 Vp-p 10k Ω Audio 0.67 Vrms (100 % modulation) 1k Ω
AV3 IN	Video (BNC) 1 Vp-p 75 Ω Audio (RCA) 0.67 Vrms 1k Ω
High Voltage:	27.7 kV at zero beam current
Picture Tube:	28 inches (24 inches) measured diagonally, 110° deflection
Audio Output:	
Internal Speaker:	2 x 10 W (Music Power) 8 Ω Impedance
External Speaker:	2 x 20 W (Music Power) 4 Ω Impedance
Headphones:	1 : 8 Ω Impedance
Speakers:	2, 10cm, round Type 2, 7.5x4.5cm oval Type
Accessories supplied:	Remote Controller UM4 Battery
Dimensions:	Height: 572(522)mm Width: 686(628)mm Depth: 489(460)mm
Net Weight:	39kg (33kg)

Specifications are subject to change without notice.
Weight and dimensions shown are approximate.

Technische Daten (Werte in Klammern gelten nur für TX-24A1DT)

Technische Daten

Netzspannung:	220 V AC, 50 Hz
Leistungsaufnahme:	150 W
Antennenimpedanz:	75 Ω asymmetrisch, Koaxial-Typ
Empfangssystem:	PAL - B, G, I SECAM-B, G, L VHF E2 - E12 UHF E21-E69
Empfangsbereiche:	CATV S1-S20
Zwischenfrequenz:	Bild 38,9 MHz Ton 33,4 MHz Farbe 34,47 MHz (PAL) 34,5 MHz (SECAM) 34,65 MHz (SECAM)
Video/Audio Anschlüsse:	
AV1/21-poliger Eingang	Video 1 Vs-s 75 Ω Audio 0.67 Vrms, 10k Ω
AV1/21 pin-poliger Ausgang	Video 1 Vs-s 75 Ω Audio 0.67 Vrms (100 % modulation) 1k Ω
AV2 S-VHS Eingang	Leuchtdichte 1 Vs-s 75 Ω Chrominanz 0.3 Vs-s, 75 Ω
AV2/21-poliger Eingang	Video 1 Vs-s 75 Ω Audio 0.67 Vrms, 10k Ω
AV2/21 pin-poliger Ausgang	Video 1 Vs-s 10k Ω Audio 0.67 Vrms (100 % modulation) 1k Ω
AV3 Eingang	Video (BNC) 1 Vs-s 75 Ω Audio (RCA) 0.67 Vrms, 1 K Ω
Hochspannung:	27.7 kV bei Nullstrahlstrom
Bildröhre :	70cm (63cm) Diagonale, 110° Ablenkung
Ton Ausgangsleistung:	
Einbaulautsprecher:	2 x 10 W (Musikleistung) 8 Ω Impedanz
Zusatz-Lautsprecherboxen:	2 x 20 W (Musikleistung) 4 Ω Impedanz
Kopfhörer:	1 : 8 Ω Impedanz
Lautsprecher:	2, 10cm, rund type 2, 7.5x4.5cm oval type
Mitgeliefertes Zubehör:	Fernbedienung UM4 Batterien
Abmessungen:	Höhe: 572(522)mm Breite: 686(628)mm Tiefe: 489(460)mm
Gewicht:	39kg (33kg)

Änderungen der technischen Daten vorbehalten.
Gewichte und Abmessungen sind Näherungsangaben.

Panasonic

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SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are properly installed.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
5. Potential, as high as 29.0 kV, is present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the receiver chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screwheads, aerials, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

SICHERHEITS-VORKEHRUNGEN

ALLGEMEINE RICHTLINIEN

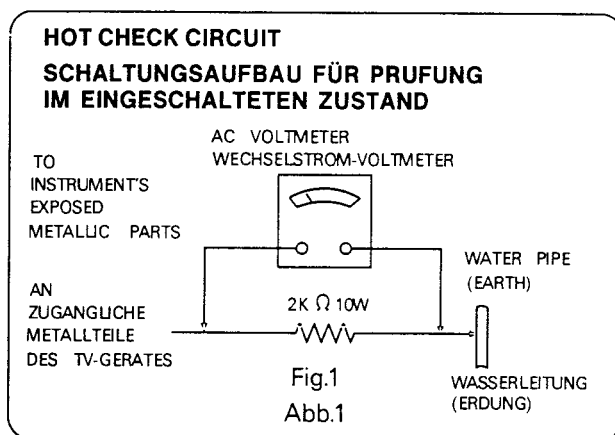
1. Es ist empfehlenswert, einen Trenntransformator in die Stromversorgung zu schalten, bevor Reparaturen an einem Gerät vorgenommen werden, dessen Chassis unter Spannung steht.
2. Bei der Durchführung von Servicearbeiten dürfen die ursprünglichen Kabelanschlüsse nicht vertauscht werden, dies gilt insbesondere für die Anschlüsse im Hochspannungsteil. Hat sich ein Kurzschluß ereignet, dann sind alle Teile, an denen Spuren von Überhitzung sichtbar sind, auszuwechseln.
3. Nach Beenden der Servicearbeiten ist sicherzustellen, daß alle Sicherheitsvorrichtungen, wie Isolationsstege, Isolationspapiere, Abschirmungen und Isolations - R - C - Glieder wieder richtig eingesetzt sind.
4. Wenn der Fernseher während längerer Zeit nicht in Betrieb gesetzt wird, sollte der Netzstecker aus der Netzsteckdose gezogen werden.
5. Spannungen von bis zu 29,0kV sind vorhanden, wenn dieser Fernseher in Betrieb ist. Die Inbetriebnahme des Fernsehers ohne aufgesetzte Rückwand bringt die Gefahr eines elektrischen Schlages von der Fernseher - Stromversorgung mit sich. Servicearbeiten sollten daher auch nie durch Personen versucht werden, die nicht in vollem Umfang mit den Sicherheitsvorkehrungen beim Umgang mit Hochspannungsgeräten vertraut sind. Vor der Handhabung mit der Bildröhre ist die Anode der Bildröhre immer an dem Empfängerchassis zu entladen.
6. Nach Beenden der Servicearbeiten sind die folgenden Kriechstrom-Prüfungen durchzuführen, um den Kunden vor der Gefahr eines elektrischen Schlages zu schützen.

MESSUNG DES ISOLATIONSWIDERSTANDES IM ABGESCHALTETEN ZUSTAND

1. Den Netzstecker aus der Netzsteckdose ziehen und die beiden Steckerstifte kurzschließen.
2. Den Geräteschalter des Fernsehgerätes einschalten.
3. Mit einem Ohmmeter den Widerstandswert zwischen dem überbrückten Netzkabelstecker und jedem zugänglichen Metallteil am Gehäuse des Fernsehgerätes, wie Schraubenköpfe, Antennen, Achsen der Regler, Griffassungen usw. messen. Wenn ein zugängliches Metallteil eine Rückleitung zum Chassis hat, sollte die Anzeige zwischen 4M ohm und 20M ohm betragen. Wenn ein zugängliches Metallteil keine Rückleitung zum Chassis hat, muß die Anzeige infinite betragen.

LEAKAGE CURRENT HOT CHECK (See Fig 1)

1. Plug the AC cord directly into the AC outlet. Do not use the isolation transformer for this check.
2. Connect a 2 k ohm, 10W resistor, in series with an exposed metallic part on the receiver and an earth such as water pipe.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 volts RMS. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and re-checked before it is returned to the customer.



X-RADIATION WARNING:

1. The potential sources of X-Radiation in TV sets are the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 29.0 kV without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Set the service switch to the SERVICE position.
3. Measure the High Voltage. The meter reading should indicate 27.7 kV, +/- 1.5 kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
4. To prevent an X-Radiation possibility, it is essential to use the specified tube.

SHUT DOWN CIRCUIT TEST

This test must be made as a final check before the set is returned to the customer.

1. With the rear cover removed, supply nominal 220V AC to the set, turn on the power switch.
2. Receive a Phillips pattern.
3. Supply - 40 V DC to TPE7, and confirm that the shut down circuit does not operate.
4. Supply - 60 V DC to TPE7, and confirm that the shut down circuit operates.

MESSUNG DES DRIECHSTROMS IM EINGE- SCHALTETEN ZUSTAND (Siehe Abb 1)

1. Den Netzstecker direkt in eine Netsteckdose stecken. Für diese Messung keinen Trenntransformator verwenden.
2. Einen 2k ohm /10 W - Widerstand in Serie mit einem von außen zugänglichen Metallteil am Fernsehgerät und einer guten, Erdung z.B. Wasserleitung, anschließen.
3. Ein Wechselstrom-Voltmeter mit einem Meßbereich von 1000 Ohm/Volt oder grober verwenden, um die Spannung über den Widerstand zu messen.
4. Jedes zugänglich Metallteil prüfen, und an jedem Punkt dies Spannung messen.
5. Den Netzstecker umgekehrt in die Steckdose stecken und jede der obigen Messungen wiederholen
6. Die Spannung darf an keine, der Punkte 1.4V eff. überschreiten. Wird dieser Wert nicht eingehalten, besteht die Gefahr eines elektrischen Schlages, und das Fernsehgerät sollte daher repariert und nachgeprüft werden, bevor es an den Kunden zurückgegeben wird.

RÖNTGENSTRAHLUNG

ACHTUNG:

1. Potentielle Quellen von Röntgenstrahlung in Fernsehgeräten sind das Hochspannungsteil und die Bildrohre.
2. Bei Verwendung eines Bildrohren-Prüfgerätes für den Service ist sicherzustellen, daß es für die Belastung von 29.0 kV geeignet ist, ohne daß eine Röntgenstrahlung verursacht wird.

ANMERKUNG: Es ist wichtig daß ein präzises, regelmäßig geprüfetes Voltmeter verwendet wird.

1. Helligkeit auf Minimum stellen.
2. Den Service-Schalter in die 'SERVICE' - Position stellen.
3. Die Hochspannung messen. Die Anzeige des Instrumentes sollte 27.7 kV +/- 1.5 betragen. Falls die Anzeige diese Toleranzgrenzen überschreitet, ist sofortige die Behebung nötig, um die Möglichkeit vorzeitigen Komponentenausfalls zu verhüten.
4. Um die Möglichkeit von Röntgenstrahlung zu begrenzen, ist es wichtig, daß nur die vorgeschriebene Bildröhre verwendet wird.

TEST KURZSCHLUSS-SICHERHEITSSCHALTUNG

Dieser Test muß als letzte Prüfung vor der Rückgabe des Gerätes an den Kunden durchgeführt werden.

1. Bei abgenommener Rückwand ist dem Gerät 220V Nennspannung zuzuführen, und der Geräteschalter einzuschalten.
2. Ein Phillips-Muster empfangen.
3. Gleichspannung von - 40V an TPE7 einspeisen und sicherstellen, daß die Kurzschluß- Sicherheits-schaltung nicht anspricht.
4. Gleichspannung von - 60V an TPE7 einspeisen und sich vergewissern, daß die Kurzschluß- Sicherheits-schaltung jetzt anspricht.

LOCATION OF CONTROLS

KONTROLLANLAGE

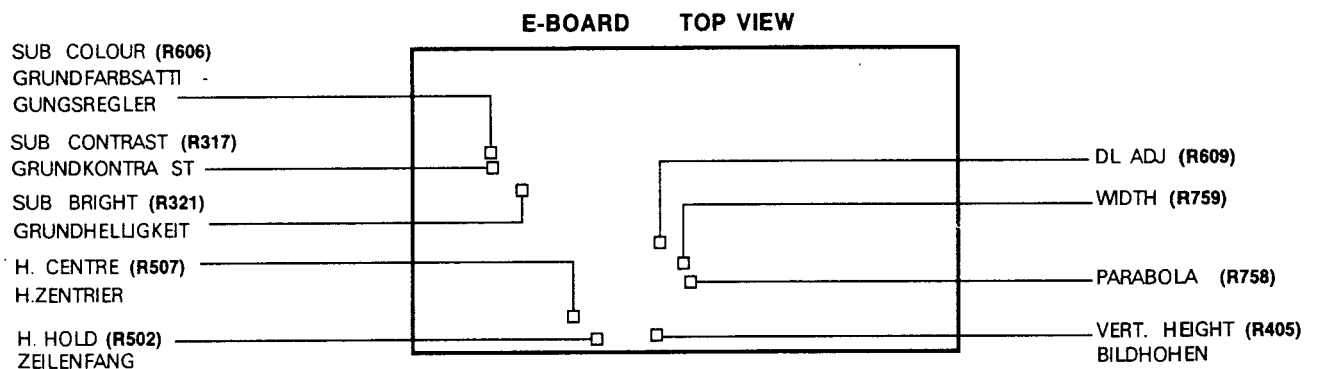
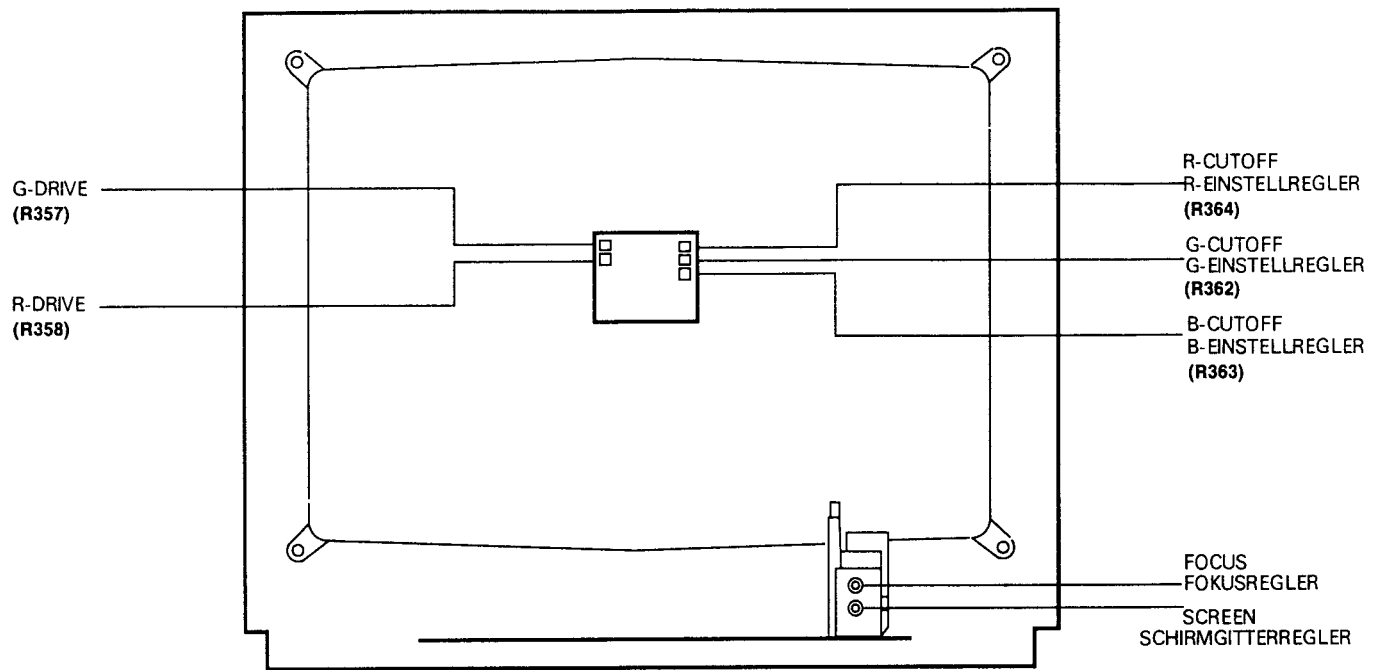


Fig.2 Abb.2

SERVICE HINTS

HOW TO REMOVE THE REAR COVER

1. Remove the 3 screws (A) as shown in Fig.3.
2. Insert a small flat Screw Driver into the slots of the 5 Rear Cover Fastening Clips as shown in Fig. 4.

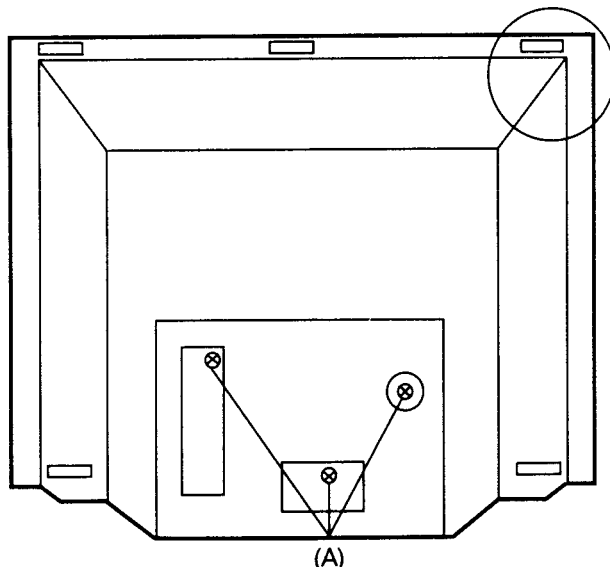


Fig.3 Abb.3

SERVICE HINWEISE

ENTFERNEN DER GERÄTERÜCKWAND

1. Die 3 Schrauben (A) entfernen, siehe Abb. 3.
2. Mit einem schmalen, flachen Schraubendreher die fünf Klammern der Rückwand öffnen, siehe Abb. 4.

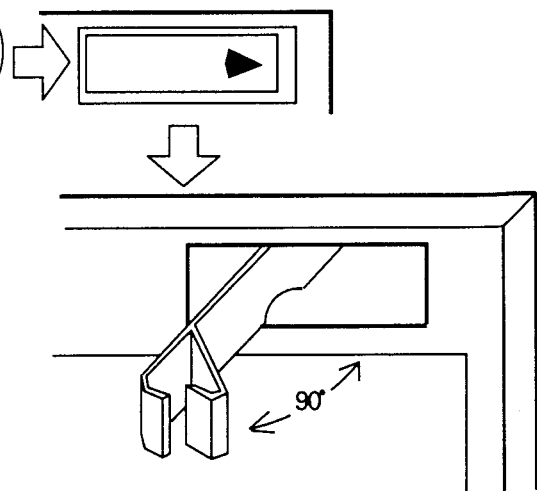


Fig.4 Abb.4

HOW TO MOVE CHASSIS INTO SERVICE POSITION

1. Remove the 3 screws (A) as shown in Fig.5.
2. Remove the 1 screw (B) as shown in Fig.6.
3. Hold and lift the tabs (C) of chassis as shown in Fig.6, then draw out the chassis towards you.

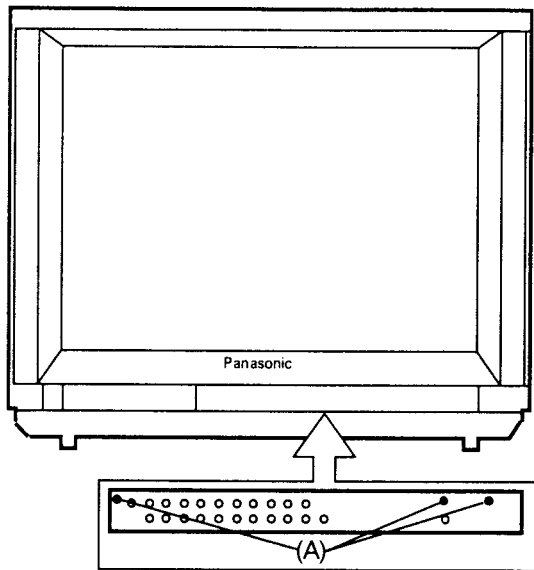


Fig.5 Abb. 5

CHASSIS IN SERVICE-POSITION BRINGEN

1. Die 3 Schrauben (A) entfernen (siehe Abb. 5).
2. Die 1 Schraube (B) entfernen (siehe Abb. 6).
3. Das chassis an den beiden Laschen (C) haltend anheben und dann gegen sich herausziehen (siehe Abb. 6).

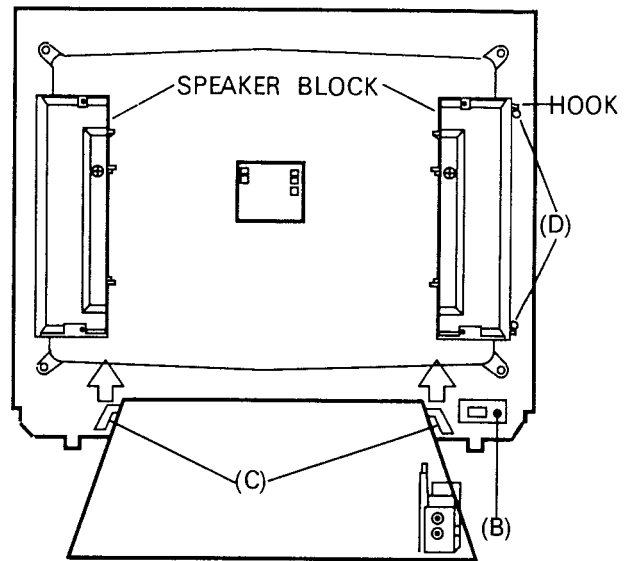


Fig.6 Abb. 6

HOW TO REMOVE THE SPEAKER BLOCK

1. Remove the 2 screws (D) and 2 hooks as shown in fig.6.
2. Draw out the speaker block towards you.

AUSBAUEN DES LAUTSPRECHERBLOCKS

1. Die beiden Schrauben (D) und die beiden Haken entfernen (siehe Abb. 6).
2. Den Lautsprecherblock gegen sich herausziehen.

SERVICE POSITION FOR B-BOARD

1. Remove the B-Board from the E-Board.
2. Connect the extension lead wires between B-Board and E-Board as shown in Fig. 7.
(Number TZS709006)

SERVICE STELLUNG FÜR DIE B-PLATINE

1. Die B-Platine von der E-Platine trennen.
2. Die B-Platine über Verlängerungs-Anschlußdrähte mit der E-Platine verbinden, wie in Abb. 7 gezeigt.
(Nummer TZS709006)

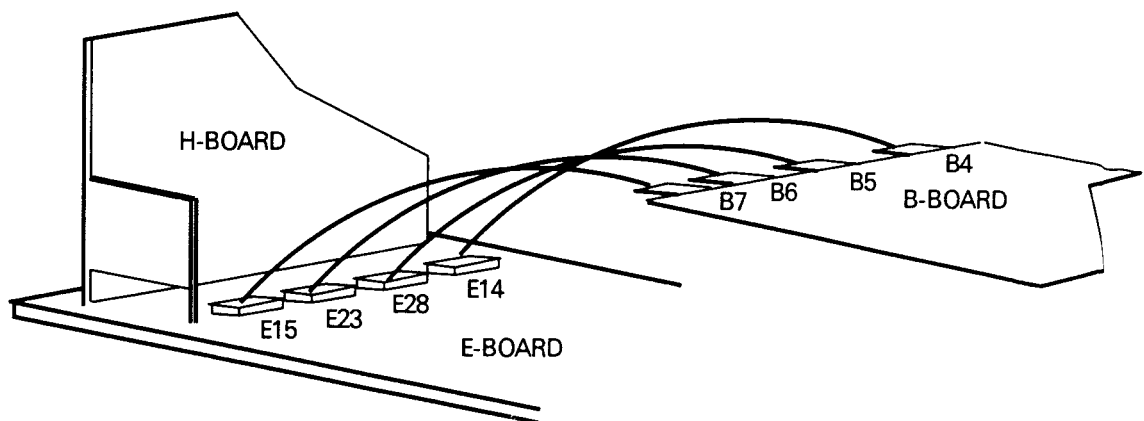


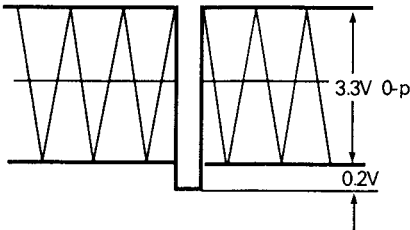
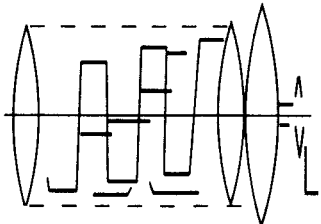
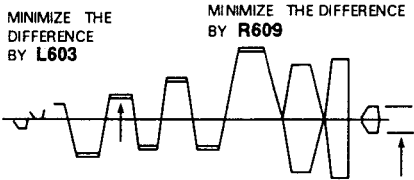
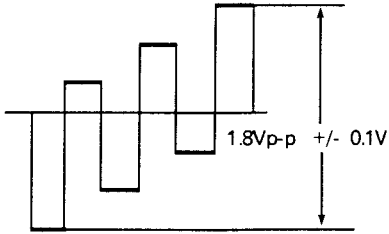
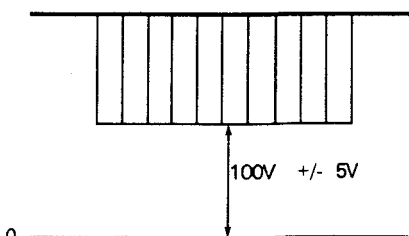
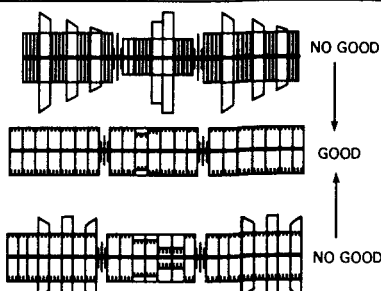
Fig.7 Abb.7

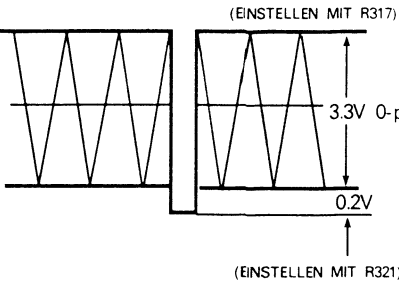
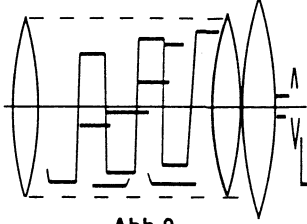
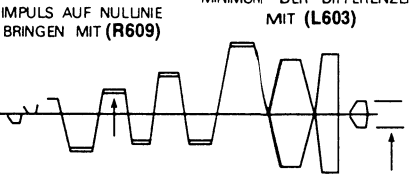
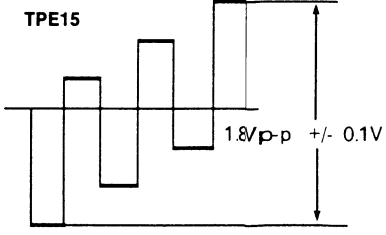
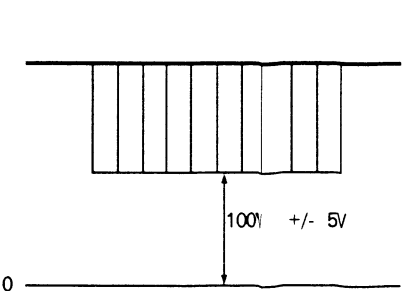
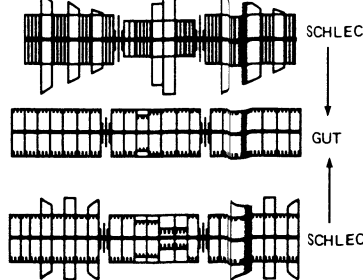
ADJUSTMENTS

ITEM/PREPARATION	ADJUSTMENT PROCEDURE
<u>B VOLTAGE</u> 1. Operate the TV set. 2. Set controls: Bright minimum Sub-bright minimum Contrast minimum	1. Confirm the indicated test points for the specified voltage. TPE1: 160.0 +/- 2 V TPE2: 5.0 +/- 0.5 V TPE3: 36.0 +/- 2 V TPE4: 15.5 +/- 1.0 V TPE5: 12.0 +/- 1.0 V TPE10: 210.0 +/- 10 V TPE34: 26.5 +/- 1.5 V TPE66: 8.5 +/- 1.0 V
<u>AFC</u> 1. Operate the TV set. 2. Set a channel in UHF band. 3. Supply 38.9MHz continuous wave to TP of Tuner. 4. Connect a DVM to TPE22 .	1. Adjust L107 so that the voltage at TPE22 becomes 5.6 +/- 0.1V 2. Change the frequency and confirm the voltage as shown below. - 100 kHz: less than 3.5 V - 100 kHz: more than 7.0 V
<u>RF AGC</u> 1. Receive a colour bar pattern. 2. Set the input level to 60 dB +/- 2 dB (75 ohm open). 3. Connect an oscilloscope to TPE9 with DC mode.	1. Turn RF AGC control (R108) fully clockwise. 2. Slowly turn R108 counterclockwise to set it at the point before the voltage at TPE9 drops.
<u>HIGH VOLTAGE</u> 1. Operate the TV set. 2. Set controls: Bright minimum Contrast minimum Sub-bright minimum	1. Confirm that the High Voltage is within a range of 27.7 kV +/- 1.5 kV. Note : If the high voltage is out of tolerance, confirm that voltage at zero beam current (Bright, Contrast and Colour controls to their minimum positions) is within the above tolerance.
<u>TELETEXT CLOCK</u> 1. Operate the TV set and confirm the B voltage. 2. Connect a frequency counter to TPH4 . 3. Earth TPH3 .	1. Adjust C3528 . Reading of the counter : 6.01MHz +/- 5kHz.
<u>PILOT CARRIER</u> 1. Receive a signal with stereo sound. 2. Connect an oscilloscope to TPB18 .	1. Adjust L2201 and R2209 to maximize the amplitude of sine wave on the oscilloscope . 2. Change the stereo sound into a multiplex sound, and connection of the oscilloscope to TPB17 . 3. Adjust L2201 and R2210 to maximize the amplitude of sine wave. Note : Adjusted position of L2201 must be at the point where both stereo sound and multiplex sound are maximized.
<u>CHANNEL SEPARATION</u> 1. Receive a Stereo Signal with 40 % modulation at 1 kHz for R channel, 0 % modulation for L channel. 2. Connect an oscilloscope to TPB7 .	1. Adjust R2224 to minimize signal level at TPB7 .

JUSTIERUNGEN

ABGLEICHPUNKTE UND VORBEREITUNG	JUSTIERUNG
<u>VERSORGUNGSSPANNUNG B</u> - TV einschalten. - Die Regler wie folgt einstellen: Helligkeit minimum Grundhelligkeitsregler . minimum Kontrast minimum	Die Messungen an den Testpunkten sollen folgende Betriebsspannungen ergeben. TPE1: 160.0 +/- 2 V TPE5: 12.0 +/- 1.0 V TPE2: 5.0 +/- 0.5 V TPE10: 210.0 +/- 10 V TPE3: 36.0 +/- 2 V TPE34: 26.5 +/- 1.5 V TPE4: 15.5 +/- 1.0 V TPE66: 8.5 +/- 1.0 V
<u>AFC</u> - TV einschalten. - Kanal im UHF-Bereich wählen. - Meßsender auf 38.9 MHz einstellen und an den Tuner-Testpunkt anschließen. - DVM an TPE22 anschließen.	- Spule L107 so abgleichen, daß die Gleichspannung am TPE22 5.6V +/- 0.1V beträgt. - Die Frequenz ändern, und die Spannung wie folgt kontrollieren: + 100 kHz: Kleiner als 3.5 V - 100 kHz: Größer als 7.0 V
<u>RF AGC</u> - Empfang eines Farbbalken - Testbildes. - Das Eingangssignal soll mit 60dB +/- 2dB (75 Ω eingespeist werden). - Oszilloskop an TPE9 in DC-Funktion anklemmen.	- Der Regler RF AGC R108 ist auf Rechtsanschlag zu stellen. - Den Regler R108 so einstellen, daß er kurz vor dem Punkt steht, an dem der Messwert an TPE9 ansinkt.
<u>HOCHSPANNUNG.</u> - TV einschalten. - Die regler wie folgt einstellen: Helligkeit minimum Grundhelligkeitsregler . minimum Kontrast minimum	Die Hochspannung darf bei 27.7kV eine Toleranz von +/- 1.5kV. Anmerkung: Falls die Hochspannung außerhalb der Toleranz liegt, bitte bei minimaler Helligkeit, Kontrast und Farbsättigung prüfen, ob sie innerhalb der Toleranz ist.
<u>VIDEOTEXT-CLOCK-OSZILLATOR</u> - TV einschalten und Betriebsspannung B prüfen. - Frequenzzähler an TPH4 anschließen. TPH3 auf Masse klemmen.	C3528 einstellen. Ablesung des Zählers : 6.01 MHz +/- 5kHz.
<u>PILOT TONTRÄGER</u> - Stereo - Signal empfangen. - Oszilloskop an TPB18.	- Mit L2201 und R2209 die Sinusamplitude auf Maximum einstellen. - Oszilloskop an TPB17 anklemmen und von Stereo auf Multiplex umschalten. L2201 und R2210 auf Maximum der Sinusamplitude justieren. Anmerkung: Die Einstellung von L2201 muß sowohl bei Stereo wie auch Multiplex die maximale Sinusamplitude ergeben!
<u>KANALTRENNUNG</u> - Stereo - Signal empfangen. Rechten Kanal mit 40 % 1kHz modulieren. Linker Kanal ohne Modulation. - Oszilloskop an TPB7 anklemmen.	R2224 so einstellen daß das Übersprechen vom rechten zum linken Kanal TPB7 zum Minimum wird.

ITEM/PREPARATION	ADJUSTMENT PROCEDURE	WAVEFORM
SUB CONTRAST 1. Receive the Philips pattern. (Input level : 75 dB.) 2. Connect an oscilloscope to TPE15 . 3. Set controls: Bright minimum Contrast maximum Colour minimum Picture centre 4. Earth TPE7 .	1. Adjust Sub-Bright R321 for 0.2V higher than black level. 2. Adjust the Sub-Contrast R317 for 3.3V p-p. 3. Remove link from TPE7 .	 Fig.8
PAL APC 1. Receive a PAL colour bar pattern. 2. Earth TPE76 . 3. Connect oscilloscope to TPE15 .	1. Adjust APC trimmer C637 to obtain stationary or slowly moving colour bars as shown in Fig 9. 2. Remove link and confirm colour bars are stationary.	 Fig.9
PAL DELAY LINE 1. Receive a PAL colour bar pattern. 2. Earth TPE6 3. Connect oscilloscope to TPE15 .	1. Adjust DL Adj R609 and DL Matching Trans L603 to obtain waveform at TPE15 as shown in Fig 10.	 Fig.10
SUB COLOUR 1. Receive a PAL colour bar pattern. 2. Set controls: Bright minimum Contrast maximum Sub Colour centre 3. Connect DC voltmeter to TPE21 . 4. Connect an oscilloscope to TPE15 .	1. Adjust colour to achieve 5.3 V at TPE21 . 2. Connect a 100 ohm resistor across TPE6 and earth. 3. Adjust sub colour R606 . For 1.8 Vpp +/- 0.1 V at TPE15 as shown in Fig 11. 4. Remove 100 ohm resistor from TPE6 and earth.	 Fig.11
TELETEXT CONTRAST Note: Before this adjustment is attempted, white balance adjustment must be finished. 1. Receive a teletext signal. 2. Connect an oscilloscope to TPY1 3. Set controls: Bright minimum Contrast maximum	1. Adjust R3514 to obtain the waveform as shown in Fig 12.	 Fig.12
BELL FILTER / LINE DISCRIMINATOR 1. Receive a Philips pattern. (SECAM) 2. Connect an oscilloscope to TPE69 . 3. Earth TPE76 . 4. Earth TPE73 .	1. Adjust L609 to obtain the waveform as shown in Fig 13.	 Fig.13

ABGLEICHPUNKTE UND VORBEREITUNG	JUSTIERUNG	SIGNALFORM
GRUNDKONTRAST - Empfang eines Farbbalken - Testbildes. - Oszilloskop an Testpunkt TPE15. - Die Regler wie folgt einstellen : Helligkeit minimum Kontrast maximum Farbsättigung ... minimum Bildschärfe mittenstellung TPE7 auf Masse Klemen	- Grundhelligkeit R321 auf 0.2 V einstellen. - Grundhelligkeit R317 auf 3.3 Vss einstellen.	 Abb.8
PAL APC - Empfang eines PAL - Farbbalken - Testbildes. TPE76 auf Masse Klemen. - Oszilloskop an Testpunkte TPE15.	- Trimmer C637 auf minimale Bewegung in den Farbbalken abgleichen (siehe Abb. 9) - Brücken entfernen und korrekte Farbbalkenfolge überprüfen.	 Abb.9
PAL-VERZÖGERUNGSLEITUNG - Empfang eines PAL - Farbbalken - Testbildes. TPE6 auf Masse Klemen - Oszilloskop an Testpunkt TPE15.	Einstellungen mit den Reglern DL Adj. R609 und der Spule DL Matching Trans. L603 so vornehmen, daß die Signalform, an Testpunkt TPE15 erreicht wird, wie Abb. 10 dargestellt TPE15.	 Abb.10
GRUNDFARBSÄTTITUNGS-REGLER Grundeinstellung Farbsättigung(SUB CONTRAST) - Farbbalkentestbild empfangen. - Kontrast maximum Helligkeit minimum Kontur(PICTURE). mitte R606 (SUB-COLOUR) ... mitte - DVM an TPE21 anschliessen. - Oszillograph an TPE15 anschliessen.	- Farbsättigung an TPE21 auf 5.3 V einstellen. 100 ohm zwischen TPE6 und Masse einlöten. - An TPE15 mit R606 (SUB-COL.) 1.8Vss +/- 0.1 V einstellen. 100 ohm zwischen TPE6 und Masse entfernen.	 Abb.11
VIDEOTEXT-KONTRAST Anmerkung: Vor dieser Einstellung muß die des Weißabgleiches abgeschlossen sein. - Videotext signal empfangen. - Oszilloskop an Testpunkt TPY1 - Die regler wie folgt einstellen: Kontrast maximum Helligkeit minimum	Mit dem R3514 die Signalform nach Abb. 12	 Abb.12
GLOCKENFILTER / ZEILENDISKRIMINATOR - Ein Philip-Muster empfangen. (SECAM) - Oszilloskop an Testpunkt TPE69. TPE76 auf Masse Klemen. TPE73 auf Masse Klemen.	Mit dem L609 die Signalform nach Abb. 13 einstelle n.	 Abb.13

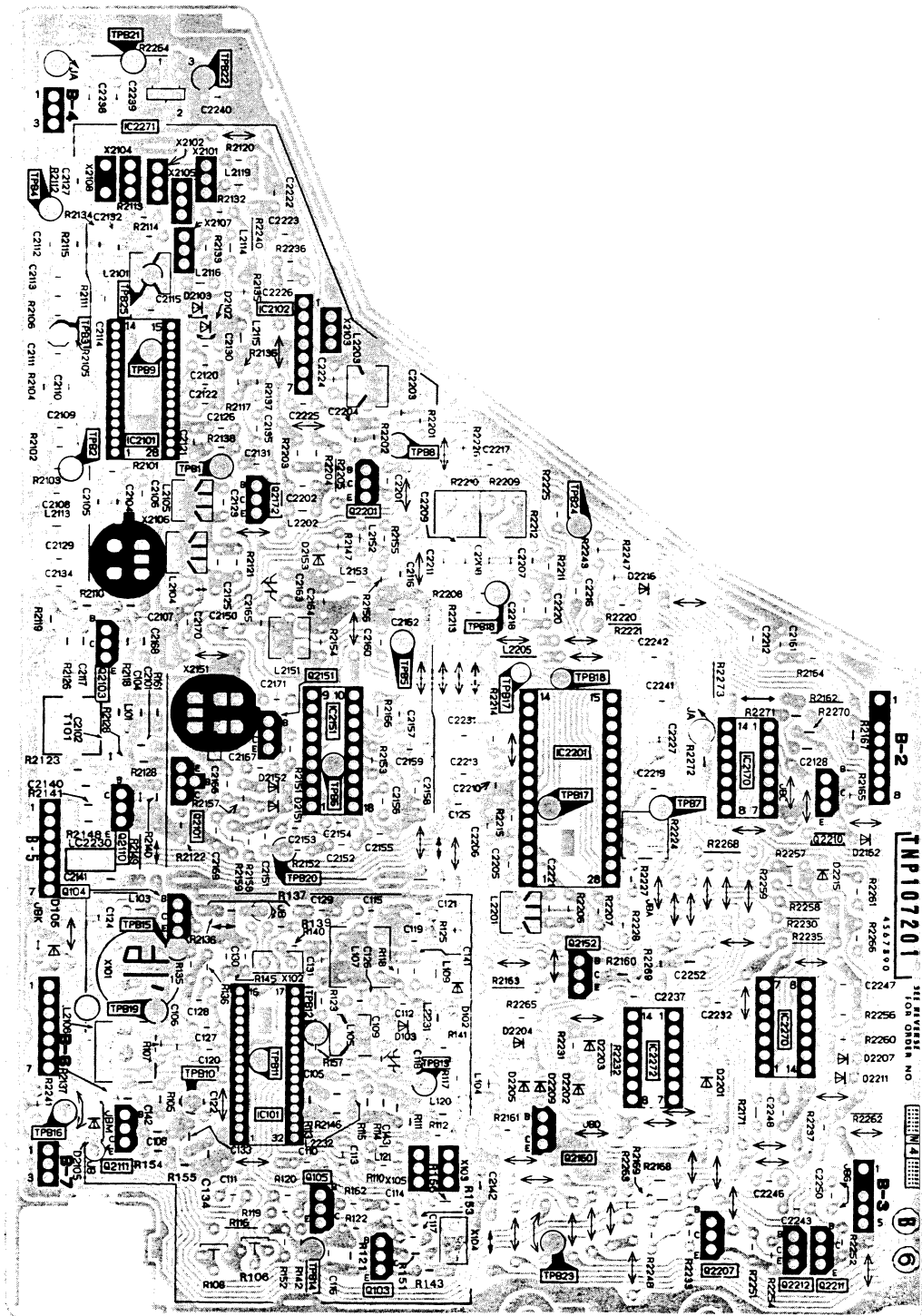
ANSICHT DER LEITERBAHNEN

PLATINE M TNP107487

B-BOARD TNP107201

PLATINE B TNP107201

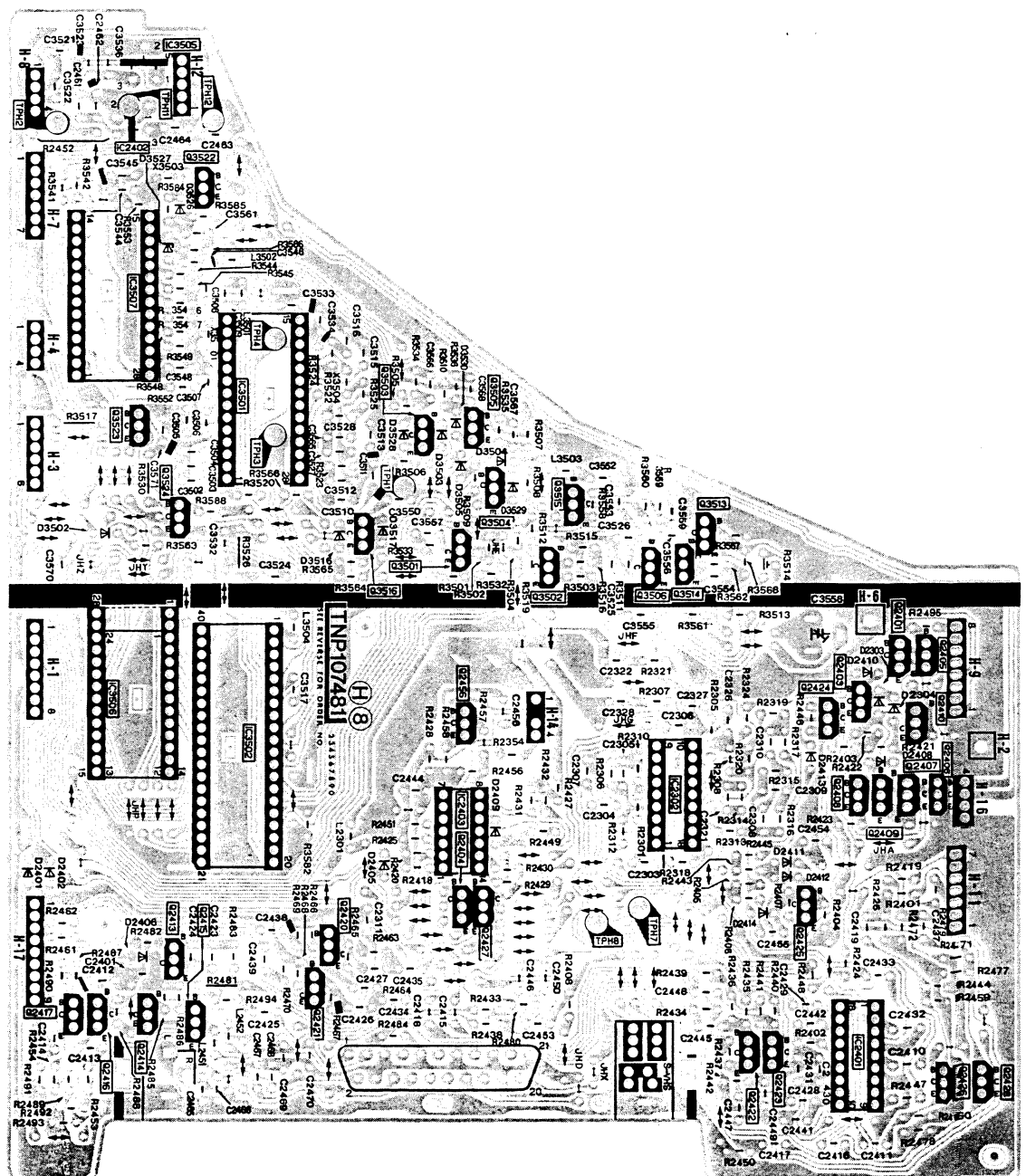
I.C.	IC2271 IC2101	IC2102 IC101	IC2151	IC2201 IC2272	IC2170 IC2270
TRANSISTOR	Q2103 Q2101 Q2111 Q2110	Q2151 Q105	Q2201 Q103	Q2152 Q2160	Q2210 Q2207
DIODE		D2152 D2151	D2153 D103	D102 D2204 D2205 D2203 D2209 D2202	D2216 D2201 D2215 D2207 D2211 D2162
TEST POINT	TPB4 TPB3 TPB2	TPB21 TPB9 TPB1	TPB15 TPB19 TPB10	TPB22 TPB20 TPB11 TPB12 TPB14 TPB6 TPB8 TPB5 TPB17 TPB18 TPB24 TPB23	TPB7



H-BOARD TNP107481AG

PLATINE H TNP107481AG

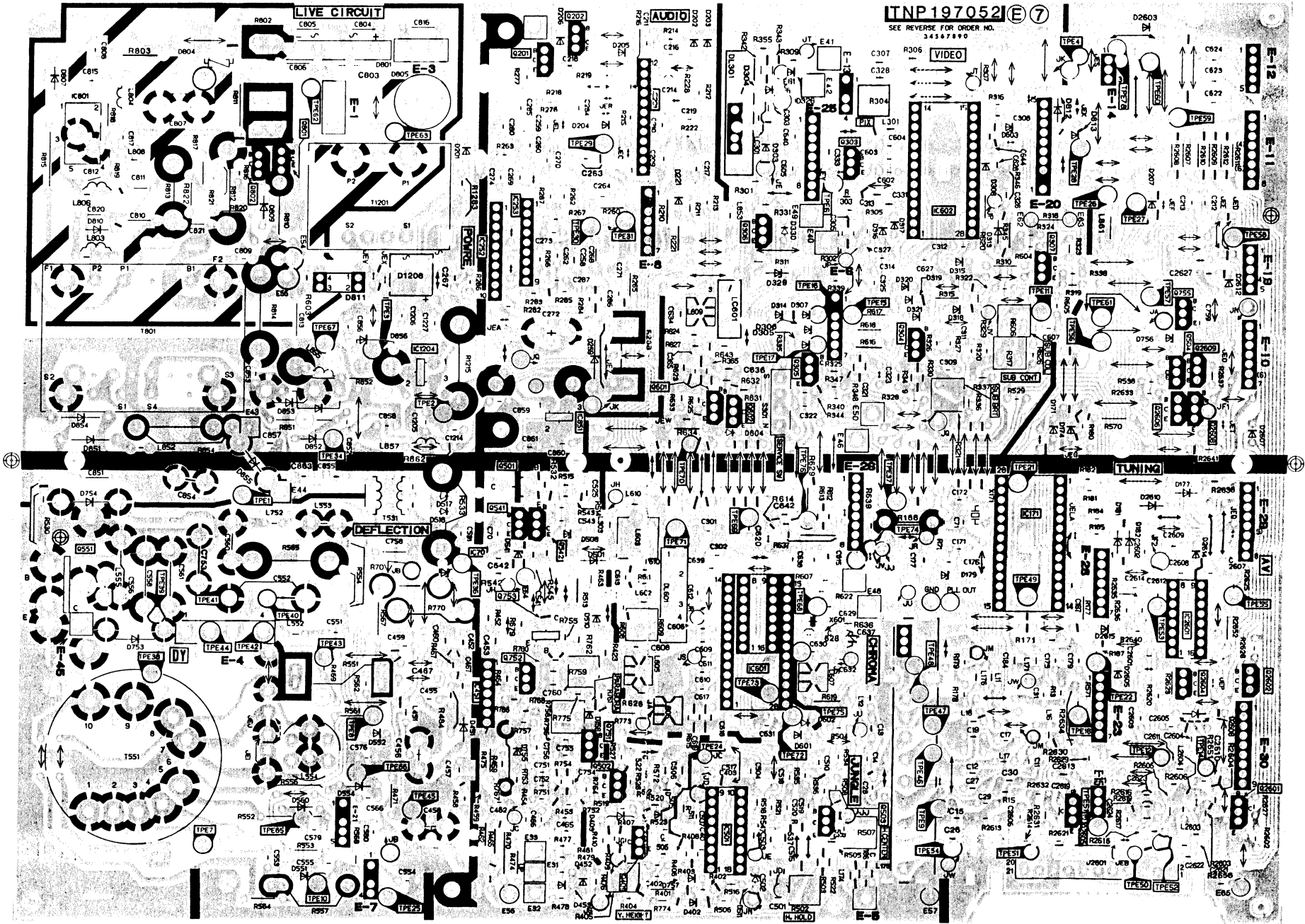
I.C.	IC3505 IC3507 IC2402 IC3506 IC3501 IC3502 IC2403 IC2302 IC2401
TRANSISTOR	Q3522 Q3523 Q3524 Q3516 Q3503 Q3505 Q3504 Q3515 Q3502 Q3506 Q3513 Q3514 Q2410 Q2401 Q2405 Q2403 Q2406 Q2407 Q2428 Q2417 Q2416 Q2413 Q2415 Q2420 Q2421 Q2422 Q2423 Q2409 Q2408 Q2426
DIODE	D3526 D3527 D3502 D2402 D2406 D3516 D3517 D3528 D3503 D3504 D3505 D3529 D2409 D2408 D2410 D2304 D2411
TEST POINT	TPH2 TPH11 TPH12 TPH4 TPH3 TPH8 TPH7



E-BOARD TNP197052AV

PLATINE E TNP197052AV

I.C.	IC801	IC1204	IC70 IC451	IC851	IC201	IC501	IC601	IC602	IC171	IC2601
TRANSISTOR	Q802 Q801	Q201 Q202	Q501 Q541 Q542 Q753	Q751	Q502 Q401	Q601 Q306 Q602	Q304	Q503	Q2605	Q504 Q2606 Q2608 Q2604 Q2602 Q2601
DIODE	D807 D810 D854 D851	D804 D809 D853 D855	D801 D811 D852	D1208 D562	D201 D451	D206 D508 D501 D510 D758 D453 D452	D205 D204 D303 D329 D314 D306 D305	D320 D319 D321	D603 D313 D812 D171 D174 D181 D182 D2610 D2615 D2606	D2603 D177 D2614 D2607
TEST POINT	TPE39 TPE38	TPE1 TPE41 TPE40 TPE44 TPE42 TPE7	TPE62 TPE67 TPE34 TPE43 TPE8 TPE66 TPE10	TPE3 TPE2 TPE5	TPE29 TPE30 TPE31	TPE16 TPE17 TPE70 TPE71	TPE6 TPE15 TPE17 TPE76 TPE24	TPE48 TPE47 TPE46 TPE54	TPE4 TPE28 TPE61 TPE56 TPE22 TPE18 TPE51	TPE60 TPE59 TPE27 TPE57 TPE53 TPE52 TPE50



SCHEMATIC DIAGRAM FOR MODEL TX-24/28A1DT (Alpha-2 Chassis)

ZEICHENERKLÄRUNG FÜR MODELL TX-24/28A1DT (Alpha-2 Chassis)

Important Safety Notice
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Wichtiger Sicherheitsinweis
Teile, die mit einem Hinweis Δ gekennzeichnet sind, sind wichtig für die Sicherheit. Sollte ein Auswechseln erforderlich sein, sind unbedingt Originalteile einzusetzen.

NOTES:

1. RESISTOR

All resistors are carbon 1/4W, unless marked.
Unit of resistance is the OHM (K = 1,000, M = 1,000,000).

- : Nonflammable ☒ : Metal Oxide
△ : Solid ⊙ : Metal Film
□ : Wire Wound ⊗ : Fuse

2. CAPACITORS

All capacitors are ceramic 50V, unless marked as follows:
Unit of capacitance is uF, unless otherwise stated.

- ⊗ : Temperature Compensation NP : Electrolytic
Ⓜ : Polyester T : Bipolar
Ⓜ : Metalized Polyester ① : Dipped Tantalum
Ⓜ : Polypropylene ② : Z-Type

3. COIL

Unit of inductance is uH, unless otherwise stated.

4. Components marked 'L' on the schematic diagram shows lead-less parts.

5. TEST POINT

● : Test Point position.

6. EARTH SYMBOL

⏏ : Chassis Earth (Cold) ⏏ : Line Earth (Hot)

7. VOLTAGE MEASUREMENT

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power Source 220V AC, 50Hz
Receiving signal Colour Bar signal (RF)
All the other customer's controls Maximum

8. This schematic diagram is the latest at the time of printing and subject to change without notice.

REMARKS:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions. All circuits, except the Power Circuit, are cold.

PRECAUTIONS

- Do not touch the hot part or the hot and cold parts at the same time as you are liable to a shock hazard.
- Do not short-circuit the hot and cold circuits as electrical components may be damaged.
- Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously, as this may cause fuse failure. Connect the earth of instruments to the earth connection of the circuit being measured.
- Make sure to disconnect the power plug before removing the chassis.

2. The following resistors are fusible safety components, they are rated at the following value.

Ref:	Part No:	Value:
R484	TSF19801	800mA
R567	TSF19102	1A
R1283	TSF19631	630mA

ANMERKUNG

1. WIDERSTÄNDE

Alle 1/4 Watt Widerstände sind Kohlenstoffwiderstände, A
sind wie folgt gekennzeichnet:
Die Maßeinheit ist OHM (Ω) (K = 1,000 M = 1,000,000)

- : nicht brennbar ☒ : Metal Oxide
△ : Lastwiderstand ⊙ : Metal Film
□ : Draht ⊗ : Fuse

2. KONDENSATOREN

Alle Kondensatoren sind Keramikausführungen.
Spannungsfestigkeit 50 V, Abweichungen sind wie folgt
gekennzeichnet.
Die Maßeinheit ist uF, wenn keine anderen Bezeichnung
sind.

- ⊗ : Temperatur Kompensation NP : Elektrolytic
Ⓜ : Polyester T : Bipolar
Ⓜ : Metallisches Polyester ① : Dipped Tantalum
Ⓜ : Polypropylen ② : Z-Type

3. SPULEN

Die Maßeinheit ist uH, Abweichungen sind gekennzeichnet.

4. Mit 'L' gekennzeichnete Teile sind ohne Anschlußdrähte.

5. TESTPUNKTE

● : Kennzeichnung der Testpunktposition.

6. MASSESYMBOL

⏏ : Erdung am Chassis (kalt) ⏏ : Erdung an M

7. SPANNUNGSMESSUNG

Spannungsmessungen sind mit einem DC-Voltmeter durch.
Die Meßbedingungen sind folgende:

Netzspannung 220V
Wiedergabe Signal Farbbalken -
Alle übrigen Einstellungen für Benutzer Soll

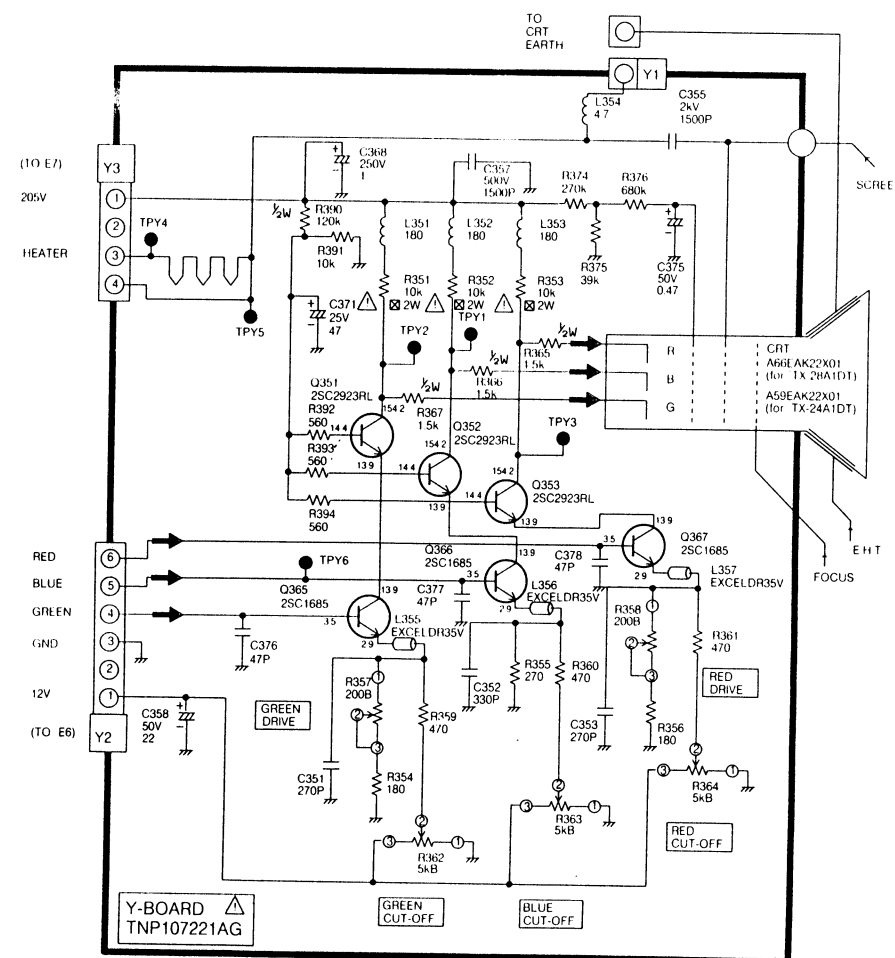
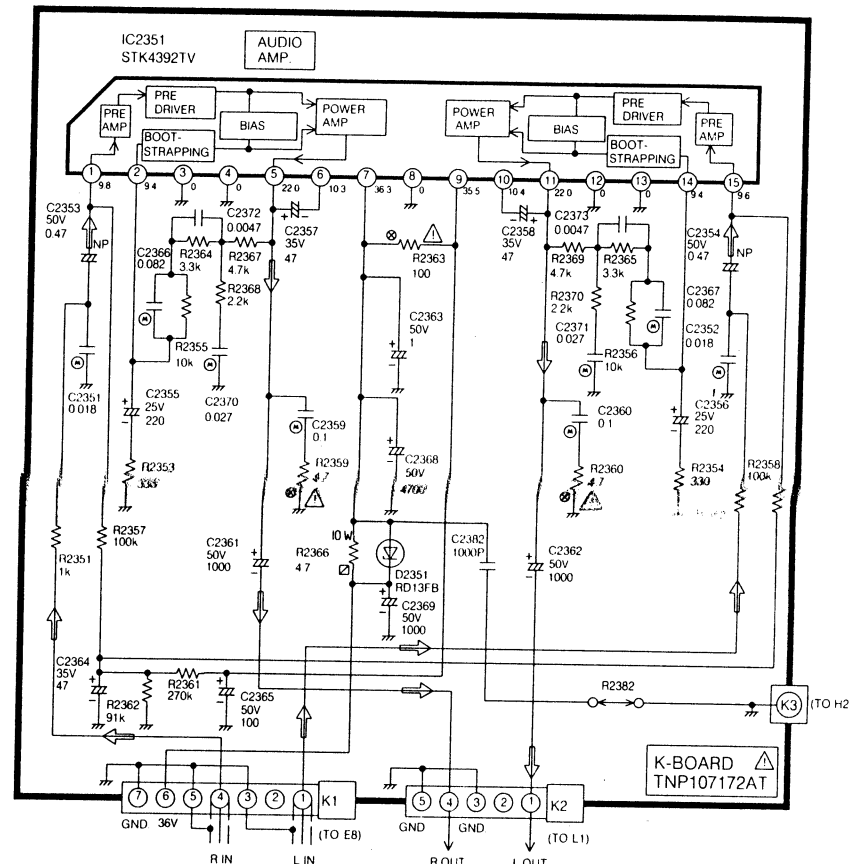
8. Änderungen im Laufe der Fertigung sind möglich.

BEMERKUNGEN:

1. Die Starkstromkreis enthält eine Gruppe der Stromkreise die
Stromquelle bzw. Masse haben. Die Stromkreise sind im Schaltplan
'HOT' (heiß) und 'COLD' (kalt) gekennzeichnet. Folgende
Vorsichtsmaßnahmen treffen. Alle Stromkreise außer der Starkstromkreis
sind kalt.

Vorsichtsmaßnahmen

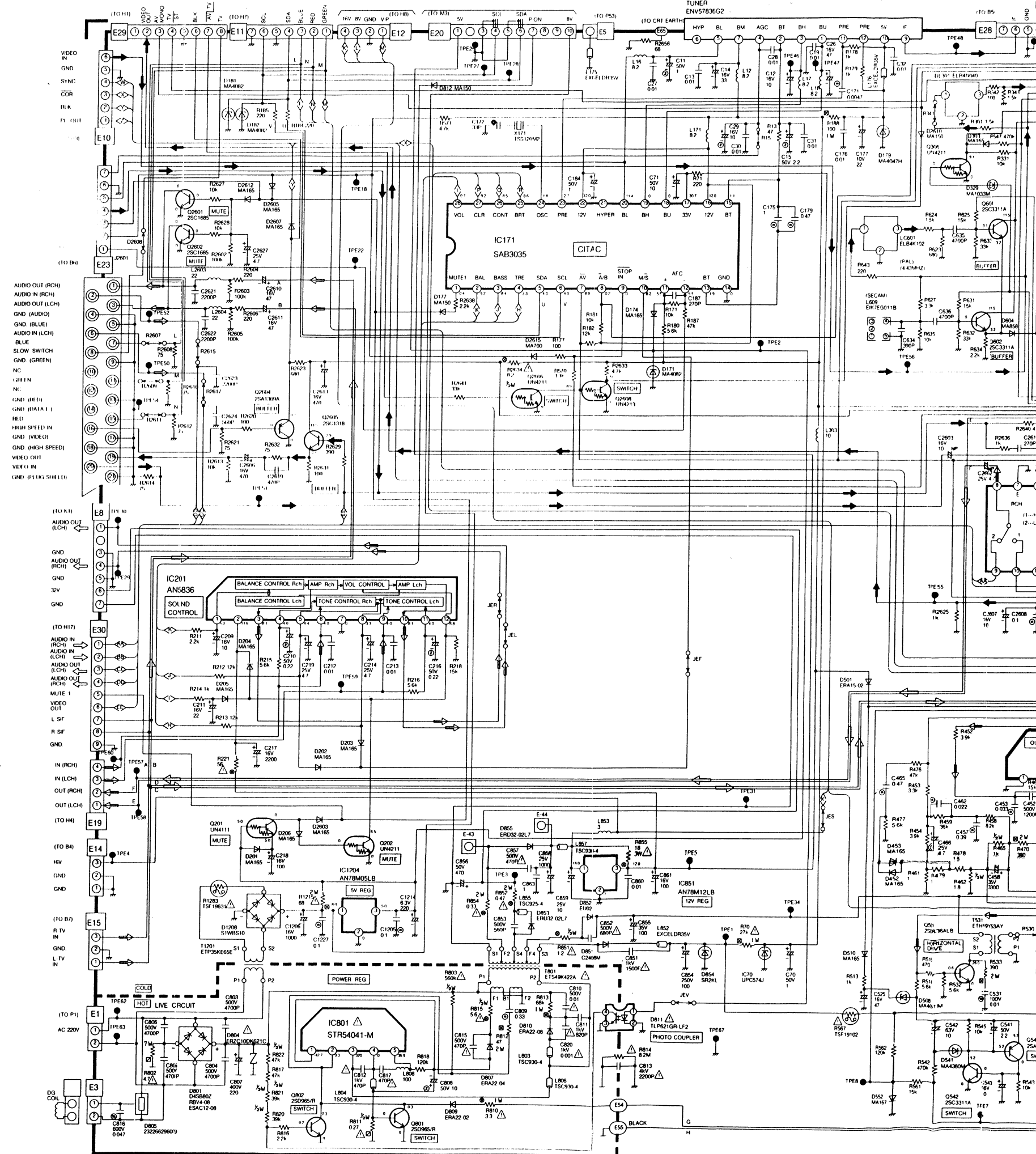
- Weder die Leitung im heißen Bereich noch gleichzeitig die
im heißen und im kalten Bereich berühren. Sonst besteht die Gefahr
des elektrischen Schlags.
- Keinesfalls die Leitungen im heißen bzw. im kalten Bereich
kurzschließen. Sonst kann eine Sicherung durchbrennen und
Komponente können beschädigt werden.
- Kein Instrument, z.B. ein Oszilloskop, gleichzeitig an der Leitung
im heißen bzw. kalten Bereich anschließen. Sonst kann eine Sicherung
durchbrennen. Die Erde des Instruments mit der des zu Prüfenden
Schaltkreises verbinden.
- Vor dem Ausbau des Gehäuses sich vergewissern, daß der Netzstecker
ausgezogen ist.

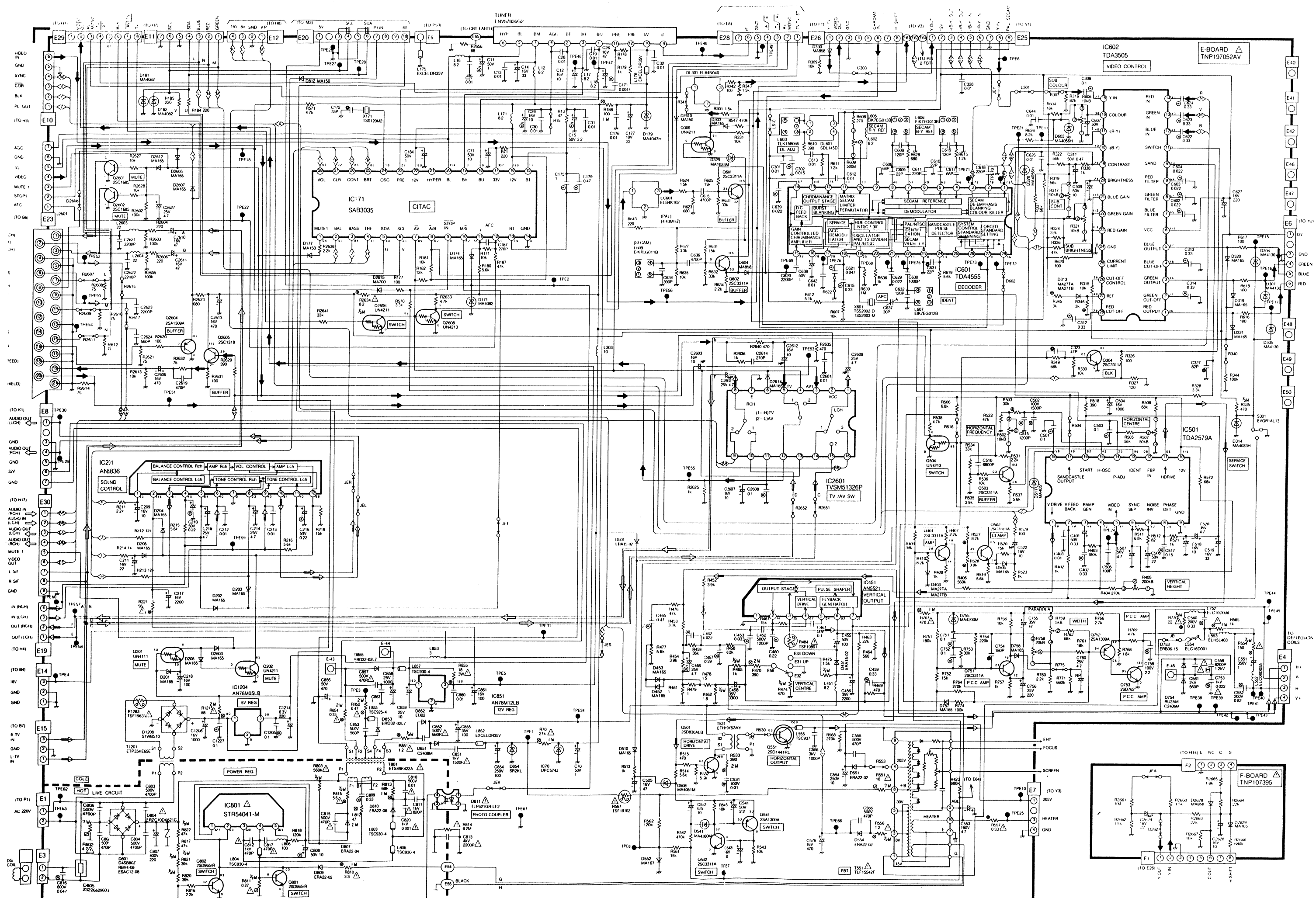


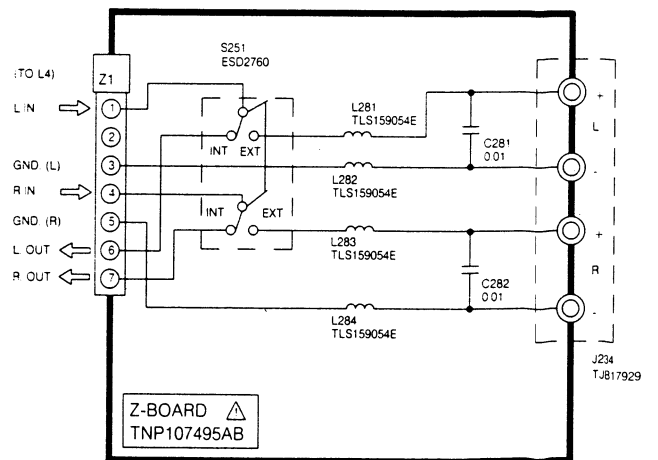
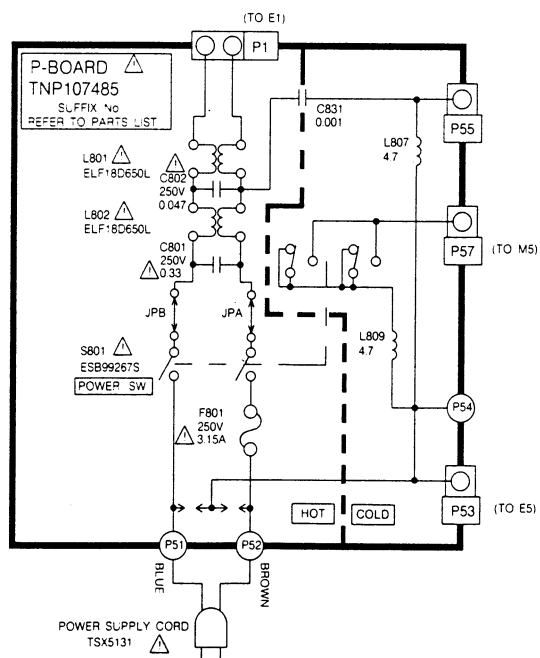
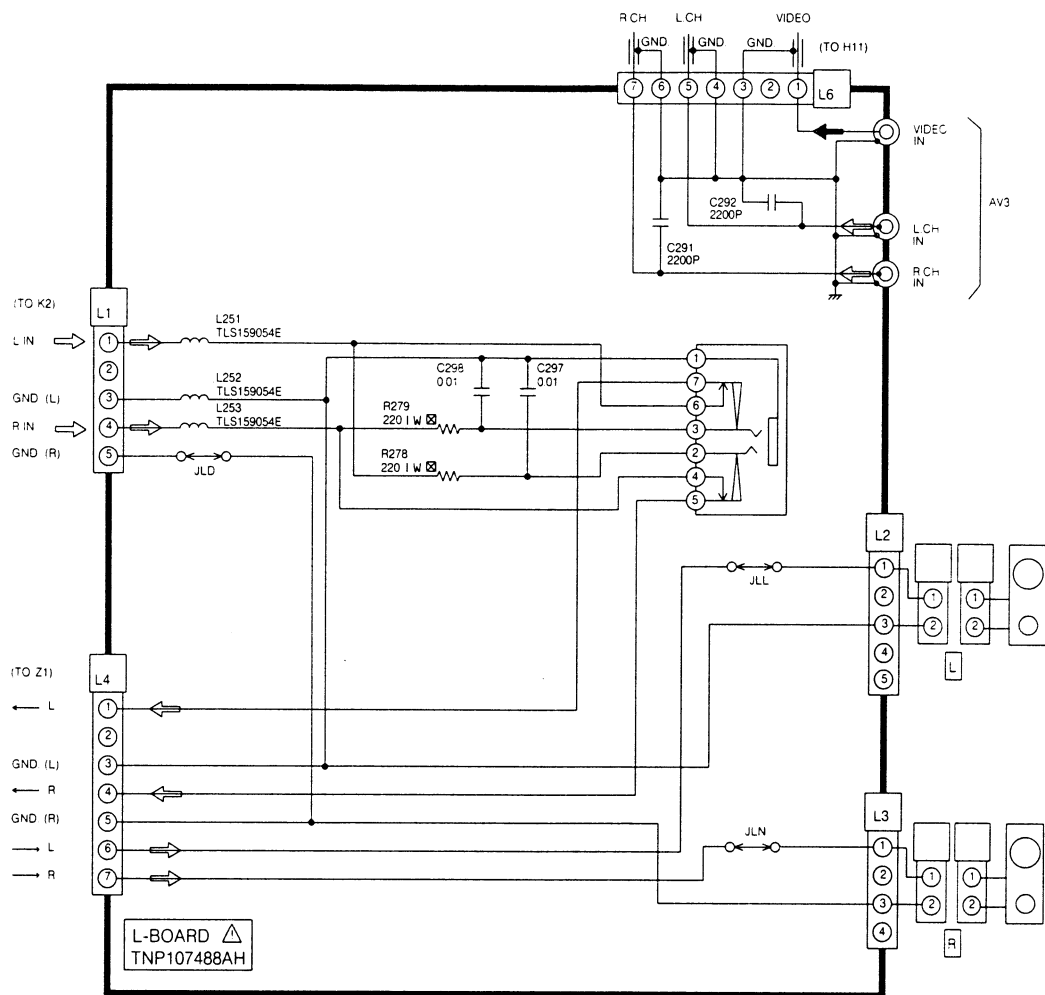
WAVEFORM PATTERN SIGNAL TABELLE

Pin 4 E23 2.8Vp-p (20µs)	Pin 1 IC3501 2.5Vp-p (20µs)	TPH1 2.5Vp-p (20µs)
Pin 15 IC602 0.4Vp-p (20µs)	PIN 12 IC601 1.5Vp-p (20µs)	TPE69 0.2Vp-p (20µs)
Pin 10 IC601 0.2Vp-p (20µs)	Pin 11 IC601 0.2Vp-p (20µs)	Pin 15 IC501 3Vp-p (20µs)
Pin 4 IC451 2.4Vp-p (5mS)	Pin 6 IC451 20Vp-p (5mS)	Pin 2 IC451 45Vp-p (5mS)
Pin 11 IC501 1.5Vp-p (20µs)	BASE Q551 15Vp-p (20µs)	COLLECTOR Q551 1500Vp-p (20µs)
Pin 4 T551 75Vp-p (20µs)	Pin 2 IC501 0.7Vp-p (5mS)	Pin 10 T551 22Vp-p (20µs)
TPE17 3.2Vp-p (20µs)	TPE16 3.2Vp-p (20µs)	TPE15 3.2Vp-p (20µs)
TPY3 145Vp-p (20µs)	TPY2 140Vp-p (20µs)	TPY1 135Vp-p (20µs)

AUDIO OUT (RCH)
 AUDIO IN (RCH)
 AUDIO OUT (LCH)
 GND (AUDIO)
 GND (BLUE)
 AUDIO IN (LCH)
 BLUE
 SLOW SWITCH
 GND (GREEN)
 NC
 GND IN
 NC
 GND (HIFI)
 GND (MATA 1)
 RED
 HIGH SPEED IN
 GND (VIDEO)
 GND (HIGH SPEED)
 VIDEO OUT
 VIDEO IN
 GND (HIFI 2/3/4/5)





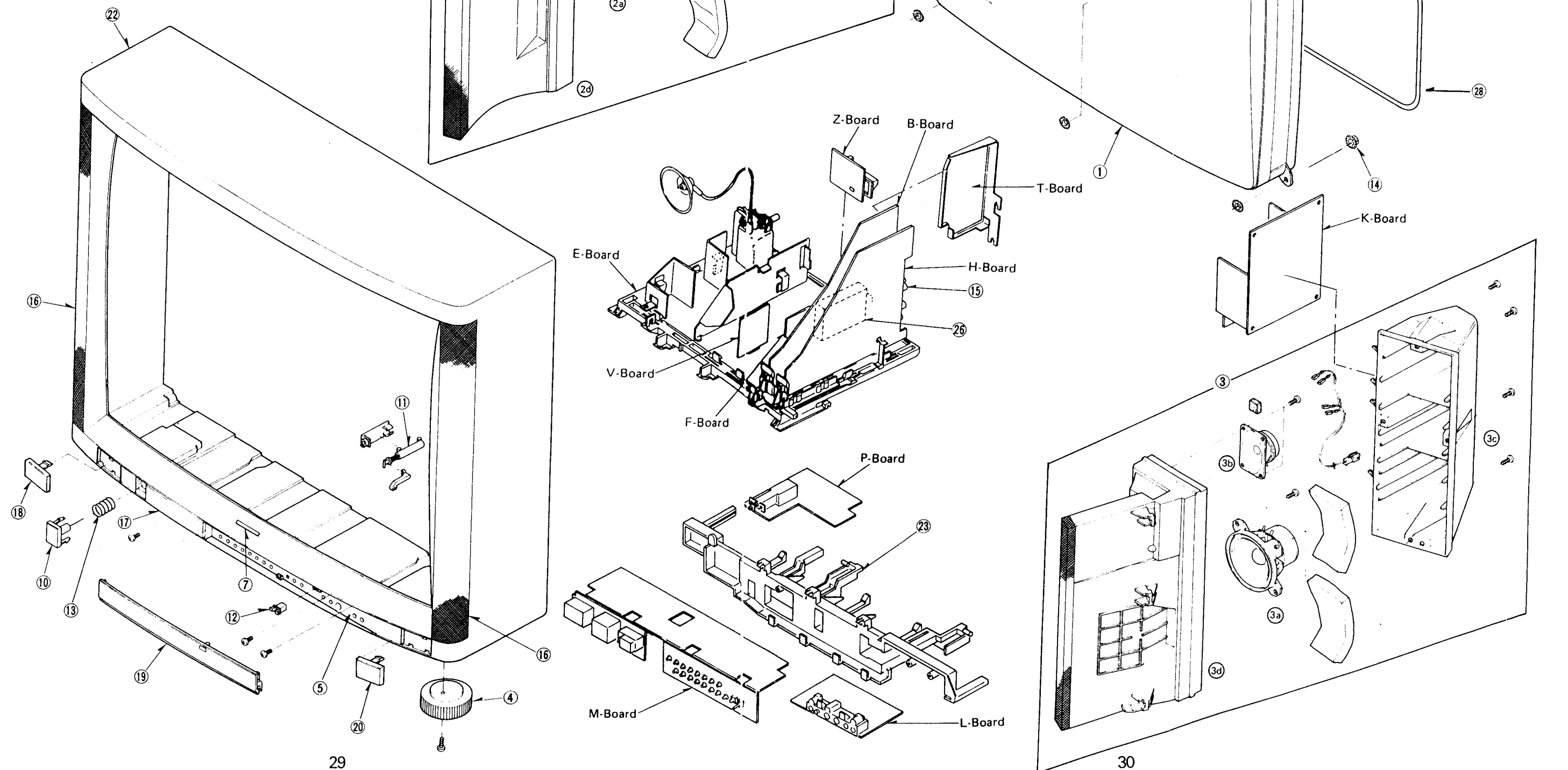


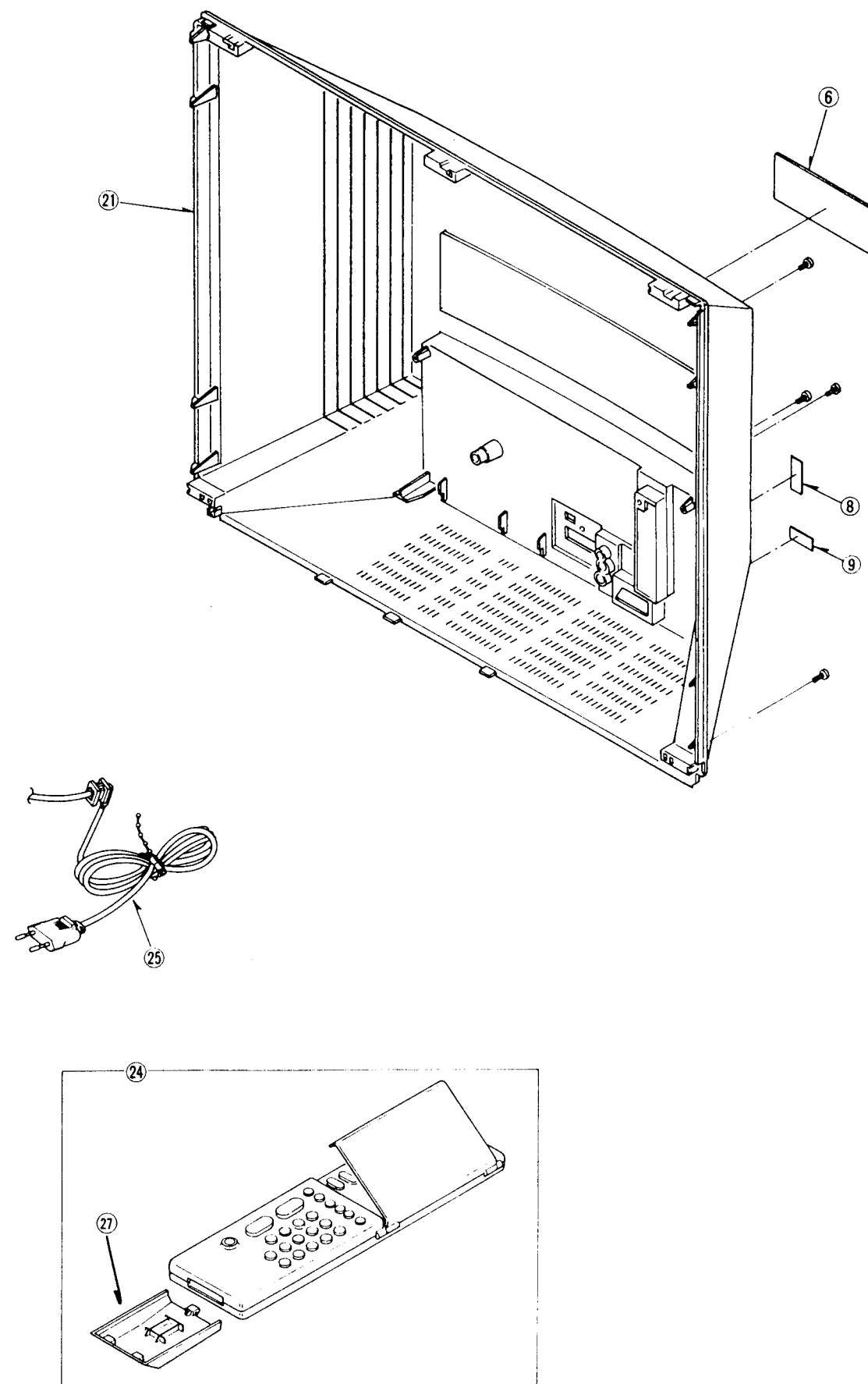
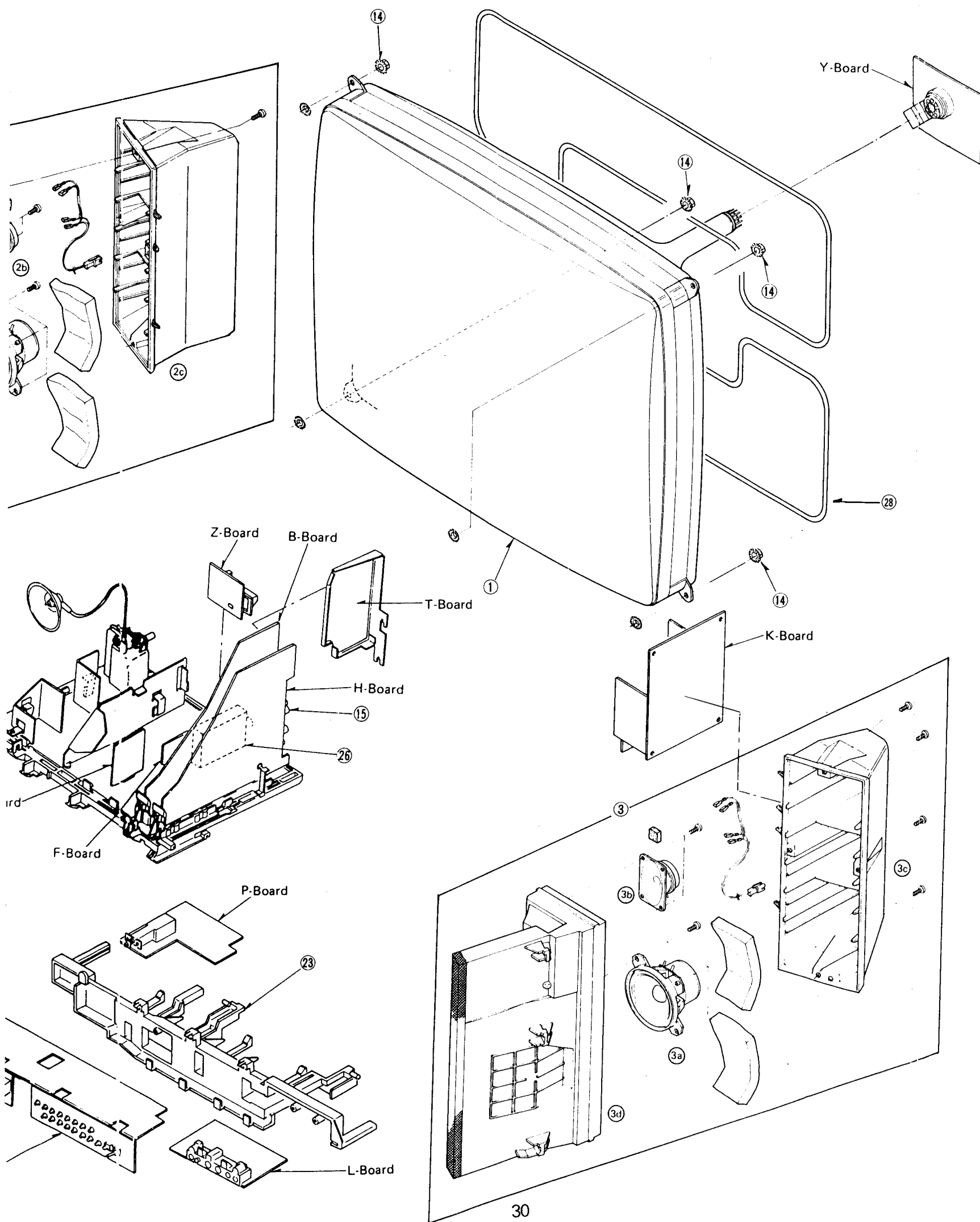
PARTS LOCATION

Note : The number on mechanical parts indicates Ref. No. of Replacement Parts List.

EXPLOSIONSZEICHNUNG

Anmerkung: Die Nummer auf den mechanischen Teilen zeigt die Bezugsnummer der Ersatzteilliste an.





REPLACEMENT PARTS LIST

Important Safety Notice

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Ref No.	Part No.	Description
MISCELLANEOUS COMPONENTS		
1)	Δ A66EAK22X01	C. R. T.
2)	EAB1076LB	SPEAKER UNIT COMPLETE (L)
or	EAB1064LF	SPEAKER UNIT COMPLETE (L)
2a)	EAS10PL602A	BASS SPEAKER
2b)	EAS7DH02D	TWEETER SPEAKER
2c)	TZS9EH005	SPEAKER ENCLOSURE (BACK L)
2d)	TZS9EH006	SPEAKER ENCLOSURE (FRONT L)
3)	EAB1076RB	SPEAKER UNIT COMPLETE (R)
or	EAB1064RFA	SPEAKER UNIT COMPLETE (R)
3a)	EAS10PL602A	BASS SPEAKER
3b)	EAS7DH02D	TWEETER SPEAKER
3c)	TZS9EH007	SPEAKER ENCLOSURE (BACK R)
3d)	TZS9EH008	SPEAKER ENCLOSURE (FRONT R)
4)	TBL61319	SET FOOT
5)	TBM120885	PRESET LABEL
6)	TBM170199	REAR COVER LABEL
7)	TBM153010	PANASONIC BADGE
8)	TBM179014	ANT. COVER
9)	TBM8E1002-1	AV COVER
10)	TBX2880900	POWER BUTTON
11)	TEK13321	DAMPER
	TMZ159945-1	DAMPER HOLDER
	TMZ159944	DAMPER ARM
12)	TEK17918	LID SWITCH
13)	TES2259	POWER BUTTON SPRING
14)	THN8E001	CRT NUT
15)	TJB17642	AV TERMINAL
16)	TKP1757521	SPEAKER NET
17)	TKP1811071	SMOKED PANEL
18)	TKP1811081	SMOKED PANEL (L)
19)	TKP1811096	CONTROL PANEL LID
20)	TKP1811142	SMOKED PANEL (R)
21)	Δ TKU581300	REAR COVER
22)	Δ TKY182201-1	CABINET
23)	TMW27175-1	CONTROL BRACKET
24)	TNQ8E0437	REMOTE CONTROL
25)	Δ TSX5131	POWER LEAD
26)	Δ ENV57836G2	TUNER
27)	UR51EC682	BATTERY COVER
28)	Δ TLK259096N	DEGAUSSING COIL
	Δ TNP107172AT	K P. C. B.
	Δ TNP107201AL	B P. C. B.
	Δ TNP107221AG	Y P. C. B.
	Δ TNP107395	F P. C. B.
	Δ TNP107481AG	H P. C. B.
	Δ TNP107485AB	P P. C. B.
	Δ TNP107487	M P. C. B.
	Δ TNP107488AH	L P. C. B.
	Δ TNP107495AB	Z P. C. B.
	Δ TNP107553AH	V P. C. B.
	Δ TNP197052AV	E P. C. B.
	TNP107690	T P. C. B.
	TPC1853006	OUTER CARTON
	TPD8E514	CUSHION (TOP)
	TPD8E515-1	CUSHION (BOTTOM)
	TQB8E0560	OPERATING INST. BOOK
	TBM170201	REMOTE INST. LABEL
	TBX3783600	STEREO-MONO BUTTON
	TKR27790	SILVER CABINET TRIM
DL301	ELB4N040	LUMINANCE DELAY LINE
DL601	EFDEN645A61F	CHROMA DELAY LINE
F801	Δ 2133.15	FUSE
	Δ 520-001	FUSE HOLDER
J234	Δ TJB17929	ANT. TERMINAL
J2601	TJB118900	21 PIN TERMINAL
DIFFERENCE LIST FOR TX-24A1DT		
MISCELLANEOUS COMPONENTS		
1)	Δ A59EAK22X01	CRT
6)	TBM170200	REAR COVER LABEL
16)	TKP1757541	SPEAKER NET
21)	Δ TKU581600	REAR COVER
22)	Δ TKY182501	CABINET

ERSATZTEILLISTE

Wichtiger Sicherheitshinweis

Teile, die mit einem Hinweis Δ gekennzeichnet sind, sind wichtig für die Sicherheit. Sollte ein Auswechseln erforderlich sein, sind unbedingt Originalteile einzusetzen.

Ref No.	Part No.	Description
	Δ TNP107172AF	K P. C. B.
	Δ TNP107201AP	B P. C. B.
	Δ TNP107485AG	P P. C. B.
	TPC1853706	CARTON
	TPD8E517	CUSHION (TOP)
	TPD8E518-1	CUSHION (BOTTOM)
	TKR27810	SILVER CABINET TRIM
C802	222233040473	CAPACITOR 400V 47nF
C831	ECKCNS101MBJ	CAPACITOR 1.2KV 100pF
L807	TLQ047K236B	PEAKING COIL
CAPACITORS		
C11	ECEA50Z1	ELECTROLYTIC 50V 1 μ F
C12	ECEA1CU100	ELECTROLYTIC 16V 10 μ F
C13	ECKC1H103JB	CERAMIC 50V 10nF
C14	ECEA1CU330	ELECTROLYTIC 16V 33 μ F
C15	ECEA50Z2R2	ELECTROLYTIC 50V 2.2 μ F
C19	ECKC1H103JB	CERAMIC 50V 10nF
C26	ECEA1CU470	ELECTROLYTIC 16V 47 μ F
C27	ECKC1H103JB	CERAMIC 50V 10nF
C28	ECKC1H103JB	CERAMIC 50V 10nF
C29	ECEA16Z10	ELECTROLYTIC 16V 10 μ F
C30	ECKC1H103JB	CERAMIC 50V 10nF
C31	ECKC1H103JB	CERAMIC 50V 10nF
C32	ECKC1H103JB	CERAMIC 50V 10nF
C70	ECEA1HU010	ELECTROLYTIC 50V 01 μ F
C71	ECEA1HU100	ELECTROLYTIC 50V 10 μ F
C105	ECKC1H103JB	CERAMIC 50V 10nF
C106	ECKC1H103JB	CERAMIC 50V 10nF
C108	ECKC1H103JB	CERAMIC 50V 10nF
C109	ECCR1H120J	CERAMIC 50V 12PF
C110	ECKC1H103JB	CERAMIC 50V 10nF
C111	ECEA1CU102	ELECTROLYTIC 16V 100 μ F
C112	ECKC1H103JB	CERAMIC 50V 10nF
C113	ECCR1H220J	CERAMIC 50V 22PF
C114	ECKC1H103JB	CERAMIC 50V 10nF
C115	ECKC1H103JB	CERAMIC 50V 10nF
C116	ECEA1EN4R7	ELECTROLYTIC 25V 4.7 μ F
C117	ECKC1H102J	CERAMIC 50V 1.0nF
C118	ECRLA007A53R	TRIMMER CAPACITOR 7pF
C119	ECCR1H120J	CERAMIC 50V 12PF
C120	ECQM1H333J	PLASTIC FILM 50V 33nF
C121	ECRLA007A53R	TRIMMER CAPACITOR 7pF
C122	ECEA50ZR47	ELECTROLYTIC 50V 0.47 μ F
C124	ECKC1H103JB	CERAMIC 50V 10nF
C125	ECKC1H103JB	CERAMIC 50V 10nF
C126	ECKC1H103JB	CERAMIC 50V 10nF
C127	ECQM1H153J	PLASTIC FILM 50V 15nF
C128	ECEA1HN010	ELECTROLYTIC 50V 01 μ F
C129	ECEA1CU470	ELECTROLYTIC 16V 47 μ F
C130	ECEA1HUR47	ELECTROLYTIC 50V 47 μ F
C131	ECKC1H561J	CERAMIC 50V 560pF
C133	ECEA50ZR1	ELECTROLYTIC 50V 0.1 μ F
C134	ECKC1H103JB	CERAMIC 50V 10nF
C142	ECEA1HNR47	ELECTROLYTIC 50V 47 μ F
C143	ECCR1H050J	CERAMIC 50V 05pF
C171	ECQM1H472J	PLASTIC FILM 50V 4.7nF
C172	ECCR1H330J	CERAMIC 50V 33pF
C175	ECQV1H105JZ	PLASTIC FILM 50V 1.0 μ F
C176	ECKC1H103JB	CERAMIC 50V 10nF
C177	ECEA1AU220	ELECTROLYTIC 10V 22 μ F
C179	ECQV1H474JZ	PLASTIC FILM 50V 470nF
C184	ECEA1HU010	ELECTROLYTIC 50V 01 μ F
C187	ECKC1H271J	CERAMIC 50V 270pF
C209	ECEA1CU100	ELECTROLYTIC 16V 10 μ F
C210	ECEA50ZR22	ELECTROLYTIC 50V 0.22 μ F
C211	ECEA1CU220	ELECTROLYTIC 16V 22 μ F
C212	ECKC1H103JB	CERAMIC 50V 10nF
C213	ECKC1H103JB	CERAMIC 50V 10nF
C214	ECEA1EU4R7	ELECTROLYTIC 25V 4.7 μ F
C216	ECEA50ZR22	ELECTROLYTIC 50V 0.22 μ F
C217	ECEA1CU222	ELECTROLYTIC 16V 220 μ F
C218	ECEA1CU101	ELECTROLYTIC 16V 100 μ F
C219	ECEA1EU4R7	ELECTROLYTIC 25V 4.7 μ F

Ref No.	Part No.	Description
C218	ECEA1CU101	ELECTROLYTIC 16V 100µF
C219	ECEA1EU4R7	ELECTROLYTIC 25V 4.7µF
C281	ECKC1H103JB	CERAMIC 50V 10nF
C282	ECKC1H103JB	CERAMIC 50V 10nF
C291	ECKR1H222KB	CERAMIC 50V 2.2nF
C292	ECKR1H222KB	CERAMIC 50V 2.2nF
C297	ECKC1H103JB	CERAMIC 50V 10nF
C298	ECKC1H103JB	CERAMIC 50V 10nF
C301	ECKC1H103JB	CERAMIC 50V 10nF
C302	ECQM1H153J	PLASTIC FILM 50V 15nF
C308	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C309	ECEA1HU100	ELECTROLYTIC 50V 10µF
C311	ECEA1HUR47	ELECTROLYTIC 50V 47µF
C312	ECQV1H334JZ	PLASTIC FILM 50V 330nF
C313	ECQV1H334JZ	PLASTIC FILM 50V 330nF
C314	ECQV1H334JZ	PLASTIC FILM 50V 330nF
C323	ECCR1H470J	CERAMIC 50V 47pF
C327	ECCR1H820J	CERAMIC 50V 82pF
C328	ECKC1H103JB	CERAMIC 50V 10nF
C351	ECCR1H271J	CERAMIC 50V 270pF
C352	ECCR1H331J	CERAMIC 50V 330pF
C353	ECCR1H271J	CERAMIC 50V 270pF
C355	ECKC3D152J	CERAMIC 2KV 1.5nF
C357	ECKC2H152J	CERAMIC 500V 1.5nF
C358	ECEA1HU220	ELECTROLYTIC 50V 22µF
C368	ECEA2EU010	ELECTROLYTIC 250V 01µF
C371	ECEA1EU470	ELECTROLYTIC 25V 47µF
C375	ECEA1HUR47	ELECTROLYTIC 50V 47µF
C376	ECCR1H470J	CERAMIC 50V 47pF
C377	ECCR1H470J	CERAMIC 50V 47pF
C378	ECCR1H470J	CERAMIC 50V 47pF
C401	ECEA1HUR33	ELECTROLYTIC 50V 33µF
C402	ECQV1H334JZ	PLASTIC FILM 50V 330nF
C403	ECKC1H103JB	CERAMIC 50V 10nF
C452	ECKC2H122J	CERAMIC 500V 1.2nF
C453	ECQM1H333J	PLASTIC FILM 50V 33nF
C455	ECEA1HGE101	ELECTROLYTIC 50V E1µF
C456	ECEA1VGE222	ELECTROLYTIC 35V 2200µF
C457	ECQV1H394JZ	PLASTIC FILM 50V 390nF
C458	ECEA1VU332	ELECTROLYTIC 35V 3300µF
C459	ECQV1H334JZ	PLASTIC FILM 50V 330nF
C460	ECQV1H224JZ	PLASTIC FILM 50V 220nF
C462	ECQM1H223J	PLASTIC FILM 50V 22nF
C465	ECQV1H474JZ	PLASTIC FILM 50V 470nF
C466	ECEA25Z4R7	ELECTROLYTIC 25V 4.7µF
C467	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C501	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C502	ECQP1152GZ	PLASTIC FILM 100V 1.5nF
C503	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C504	ECEA1CU102	ELECTROLYTIC 16V 1000µF
C505	ECKC1H101J	CERAMIC 50V 100pF
C506	ECEA1HU220	ELECTROLYTIC 50V 22µF
C507	ECEA1HU4R7	ELECTROLYTIC 50V 4.7µF
C510	ECQM1H682J	PLASTIC FILM 50V 6.8nF
C515	ECQM1H122J	PLASTIC FILM 50V 1.2nF
C517	ECQV1H154JZ	PLASTIC FILM 50V 150nF
C518	ECEA1CU100	ELECTROLYTIC 16V 10µF
C519	ECEA1CU330	ELECTROLYTIC 16V 33µF
C520	ECEA1VU4R7	ELECTROLYTIC 35V 4.7µF
C522	ECEA1CN100	ELECTROLYTIC 16V 10µF
C525	ECEA1CU470	ELECTROLYTIC 16V 47µF
C531	ECQM1103KZ	PLASTIC FILM 100V 10nF
C541	ECEA1HU2R2	ELECTROLYTIC 50V 2.2µF
C542	ECEA1JU100	ELECTROLYTIC 63V 10µF
C543	ECEA1CU100	ELECTROLYTIC 16V 10µF
C551	ECEA2VG010	ELECTROLYTIC 350V 01µF
C552	ECWF2H824JZ	POLYPROPYLENE 200V 820nF
C553	ECEA2CS4R7	ELECTROLYTIC 160V 4.7µF
C554	ECEA2ES100	ELECTROLYTIC 250V 10µF
C555	ECKC2H471J	CERAMIC 500V 470pF
C556	ECKC3F102J	CERAMIC 3KV 1.0nF
C558	ECWH12H822J	CERAMIC 500V 8.2nF
C560	ECWF2H334JZ	POLYPROPYLENE 200V 330nF
C561	ECKC3D561J	CERAMIC 2KV 560pF
C566	ECKC2H471J	CERAMIC 500V 470pF
C576	ECEA1CGE471	ELECTROLYTIC 16V 470µF
C602	ECQM1H223J	PLASTIC FILM 50V 22nF
C603	ECQM1H223J	PLASTIC FILM 50V 22nF
C604	ECQM1H223J	PLASTIC FILM 50V 22nF
C606	ECCR1H680J	CERAMIC 50V 68pF
C607	ECEA1HU010	ELECTROLYTIC 50V 01µF
C608	ECCR1H121J	CERAMIC 50V 120pF
C609	ECCR1H220J	CERAMIC 50V 22pF
C610	ECCR1H220J	CERAMIC 50V 22pF
C611	ECCR1H221J	CERAMIC 50V 220pF
C612	ECKC1H103JB	CERAMIC 50V 10nF
C613	ECKC1H103JB	CERAMIC 50V 10nF
C615	ECQV1H334JZ	PLASTIC FILM 50V 330nF
C617	ECCR1H680J	CERAMIC 50V 68pF
C618	ECCR1H221J	CERAMIC 50V 220pF

Ref No.	Part No.	Description
C619	ECCR1H121J	CERAMIC 50V 120pF
C620	ECKC1H222J	CERAMIC 50V 2.2nF
C621	ECKC1H473J	PLASTIC FILM 50V 47nF
C622	ECQV1H334JZ	PLASTIC FILM 50V 330nF
C623	ECQV1H334JZ	PLASTIC FILM 50V 330nF
C624	ECQV1H334JZ	PLASTIC FILM 50V 330nF
C626	ECKC1H103JB	CERAMIC 50V 10nF
C627	ECEA1CU221	ELECTROLYTIC 16V 220µF
C629	ECQM1H223J	PLASTIC FILM 50V 22nF
C630	ECKC1H102J	CERAMIC 50V 1.0nF
C631	ECCR1H220J	CERAMIC 50V 22pF
C632	ECCR1H121J	CERAMIC 50V 120pF
C634	ECCR1H391J	CERAMIC 50V 390pF
C635	ECKC1H472J	CERAMIC 50V 4.7nF
C636	ECKC1H472J	CERAMIC 50V 4.7nF
C637	ECRLA030E53R	TRIMMER CAPACITOR 30pF
C638	ECEA1HU010	ELECTROLYTIC 50V 01µF
C639	ECQM1H223J	PLASTIC FILM 50V 22nF
C642	ECKC1H103JB	CERAMIC 50V 10nF
C644	ECKC1H103JB	CERAMIC 50V 10nF
C651	ECEA1HUR33	ELECTROLYTIC 50V 33µF
C652	ECEA1HUR33	ELECTROLYTIC 50V 33µF
C653	ECCR1H101J	CERAMIC 50V 100pF
C654	ECCR1H101J	CERAMIC 50V 100pF
C655	ECKC1H331J	CERAMIC 50V 330pF
C656	ECKC1H471J	CERAMIC 50V 470pF
C657	ECQM1H223J	PLASTIC FILM 50V 22nF
C658	ECQM1H223J	PLASTIC FILM 50V 22nF
C659	ECKC1H471J	CERAMIC 50V 470pF
C661	ECEA1CN220	ELECTROLYTIC 16V 22µF
C662	ECKC1H332J	CERAMIC 50V 3.3nF
C663	ECEA1EU470	ELECTROLYTIC 25V 47µF
C664	ECKC1H101J	CERAMIC 50V 100pF
C665	ECKC1H101J	CERAMIC 50V 100pF
C671	ECCR1H820J	CERAMIC 50V 82pF
C681	ECEA1HN010	ELECTROLYTIC 50V 01µF
C682	ECCR1H270J	CERAMIC 50V 27pF
C683	ECCR1H101J	CERAMIC 50V 100pF
C684	ECQV1H105JZ	PLASTIC FILM 50V 1.0µF
C685	ECEA1EN3R3	ELECTROLYTIC 25V 3.3µF
C751	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C752	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C753	ECQM10223JZ	PLASTIC FILM 1KV Δ 22nF
C754	ECCR1H181J	CERAMIC 50V 180pF
C755	ECEA1VU470	ELECTROLYTIC 35V 47µF
C756	ECEA1EU221	ELECTROLYTIC 25V 220µF
C758	ECQM1225KNB	PLASTIC FILM 100V 2.2µF
C760	ECEA1EN4R7	ELECTROLYTIC 25V 4.7µF
C801	22233040334	CAPACITOR 400V 0.33µF
C803	ECKC2H472J	CERAMIC 500V 4.7nF
C804	ECKC2H472J	CERAMIC 500V 4.7nF
C805	ECKC2H472J	CERAMIC 500V 4.7nF
C806	ECKC2H472J	CERAMIC 500V 4.7nF
C807	ECOS2GA221CA	ELECTROLYTIC 400V 220µF
C808	ECEA1HFS100	ELECTROLYTIC 50V S1µF
C809	ECQV1H334JZ	PLASTIC FILM 50V 330nF
C810	ECKC2H103J	CERAMIC 500V 10nF
C811	ECKC3A821J	CERAMIC 1KV 820pF
C812	ECKC3A471J	CERAMIC 1KV 470pF
C813	ECKCNS222KB	CERAMIC 4KV 2.2nF
C815	ECKC2H471J	CERAMIC 500V 470pF
C816	ECQM6473KZ	PLASTIC FILM 600V 47nF
C817	ECKC1H471J	CERAMIC 50V 470pF
C820	ECKC3A102J	CERAMIC 1KV 1.0nF
C851	ECKC3A152J	CERAMIC 1KV 1.5nF
C852	ECKC2H681J	CERAMIC 500V 680pF
C853	ECKC2H561J	CERAMIC 500V 560pF
C854	ECEA2EG101	ELECTROLYTIC 250V 100µF
C855	ECEA1VGE101	ELECTROLYTIC 35V E1µF
C856	ECEA1HV471	ELECTROLYTIC 50V 470µF
C857	ECKC2H471J	CERAMIC 500V 470pF
C858	ECEA1EGE102	ELECTROLYTIC 25V E1µF
C859	ECEA1EGE100	ELECTROLYTIC 25V E1µF
C860	ECKC1H103JB	CERAMIC 50V 10nF
C861	ECEA1CGE101	ELECTROLYTIC 16V E1µF
C863	ECQV1H105JZ	PLASTIC FILM 50V 1.0µF
C1101	ECEA16Z10	ELECTROLYTIC 16V 10µF
C1102	ECEA1CU100	ELECTROLYTIC 16V 10µF
C1103	ECEA1CU100	ELECTROLYTIC 16V 10µF
C1104	ECQM1H392J	PLASTIC FILM 50V 3.9nF
C1105	ECQM1H333J	PLASTIC FILM 50V 33nF
C1106	ECQP1392JZ	PLASTIC FILM 100V 3.9nF
C1107	ECEA0JU101	ELECTROLYTIC 6.3V 100µF
C1201	ECKC1H103JB	CERAMIC 50V 10nF
C1202	ECQM1H272J	PLASTIC FILM 50V 2.7nF
C1203	ECEA0JU101	ELECTROLYTIC 6.3V 100µF
C1204	ECQM1H333J	PLASTIC FILM 50V 33nF
C1205	ECKC1H103JB	CERAMIC 50V 10nF
		(ON M PCB)
C1205	ECQV1H104JZ	PLASTIC FILM 50V 100nF

Ref No.	Part No.	Description		
	(ON E PCB)			
C1206	ECEA1CGE102	ELECTROLYTIC	16V	E1μF
C1207	ECCR1H150J	CERAMIC	50V	15pF
C1208	ECCR1H270J	CERAMIC	50V	27pF
C1214	ECEA0JGE221	ELECTROLYTIC	6.3V	200μF
C1221	ECKC1H103JB	CERAMIC	50V	10nF
C1222	ECEA50Z1R5	ELECTROLYTIC	50V	1.5μF
C1223	ECQM1H563J	PLASTIC FILM	50V	56nF
C1226	ECKC1H103JB	CERAMIC	50V	10nF
C1227	ECQV1H104JZ	PLASTIC FILM	50V	100nF
C1246	ECEA1CU100	ELECTROLYTIC	16V	10μF
C1248	ECQM1H333J	PLASTIC FILM	50V	33nF
C1310	ECEA1CU100	ELECTROLYTIC	16V	10μF
C1311	ECEA1CU101	ELECTROLYTIC	16V	100μF
C1313	ECEA1CU100	ELECTROLYTIC	16V	10μF
C1314	ECEA1HU2R2	ELECTROLYTIC	50V	2.2μF
C2101	ECKC1H103JB	CERAMIC	50V	10nF
C2102	ECKC1H101J	CERAMIC	50V	100pF
C2104	ECQM1H472J	PLASTIC FILM	50V	4.7nF
C2105	ECQM1H472J	PLASTIC FILM	50V	4.7nF
C2106	ECEA1CU100	ELECTROLYTIC	16V	10μF
C2107	ECKC1H103JB	CERAMIC	50V	10nF
C2108	ECEA50ZR47	ELECTROLYTIC	50V	0.47μF
C2109	ECQM1H103J	PLASTIC FILM	50V	10nF
C2110	ECEA1HU010	ELECTROLYTIC	50V	01μF
C2111	ECQM1H103J	PLASTIC FILM	50V	10nF
C2112	ECEA1CU330	ELECTROLYTIC	16V	33μF
C2113	ECKC1H103JB	CERAMIC	50V	10nF
C2114	ECEA1HUR47	ELECTROLYTIC	50V	.47μF
C2115	ECCR1H150J	CERAMIC	50V	15pF
C2116	ECKC1H103JB	CERAMIC	50V	10nF
C2117	ECKC1H102J	CERAMIC	50V	1.0nF
C2120	ECQM1H103J	PLASTIC FILM	50V	10nF
C2122	ECQM1H103J	PLASTIC FILM	50V	10nF
C2123	ECCR1H331J	CERAMIC	50V	330pF
C2125	ECCR1H561J	CERAMIC	50V	560pF
C2126	ECQM1H393J	PLASTIC FILM	50V	39nF
C2127	ECCR1H470J	CERAMIC	50V	47pF
C2128	ECKC1H103JB	CERAMIC	50V	10nF
C2129	ECEA1CU330	ELECTROLYTIC	16V	33μF
C2130	ECKC1H103JB	CERAMIC	50V	10nF
C2132	ECKC1H103JB	CERAMIC	50V	10nF
C2134	ECKC1H103JB	CERAMIC	50V	10nF
C2140	ECKC1H103JB	CERAMIC	50V	10nF
C2141	ECCR1H090J	CERAMIC	50V	09pF
C2142	ECCR1H271J	CERAMIC	50V	270pF
C2149	ECCR1H100J	CERAMIC	50V	10pF
C2150	ECKC1H103JB	CERAMIC	50V	10nF
C2151	ECKC1H103JB	CERAMIC	50V	10nF
C2152	ECKC1H103JB	CERAMIC	50V	10nF
C2153	ECEA1CU220	ELECTROLYTIC	16V	22μF
C2154	ECKC1H103JB	CERAMIC	50V	10nF
C2155	ECKC1H103JB	CERAMIC	50V	10nF
C2156	ECEA1CU221	ELECTROLYTIC	16V	220μF
C2157	ECEA1HNR47	ELECTROLYTIC	50V	.47μF
C2158	ECKC1H103JB	CERAMIC	50V	10nF
C2159	ECEA1CU101	ELECTROLYTIC	16V	100μF
C2160	ECEA1CU221	ELECTROLYTIC	16V	220μF
C2161	ECEA1CU100	ELECTROLYTIC	16V	10μF
C2162	ECKC1H103JB	CERAMIC	50V	10nF
C2163	ECRLA020E53R	TRIMMER CAPACITOR		20pF
C2164	ECCR1H180J	CERAMIC	50V	18pF
C2165	ECKC1H103JB	CERAMIC	50V	10nF
C2166	ECQM1H472J	PLASTIC FILM	50V	4.7nF
C2167	ECQM1H472J	PLASTIC FILM	50V	4.7nF
C2168	ECKC1H103JB	CERAMIC	50V	10nF
C2169	ECKC1H103JB	CERAMIC	50V	10nF
C2170	ECKC1H103JB	CERAMIC	50V	10nF
C2201	ECQM1H102J	PLASTIC FILM	50V	1.0nF
C2202	ECQM1H822J	PLASTIC FILM	50V	8.2nF
C2203	ECQM1H273J	PLASTIC FILM	50V	27nF
C2204	ECQM1H102J	PLASTIC FILM	50V	1.0nF
C2205	ECEA1CU100	ELECTROLYTIC	16V	10μF
C2206	ECEA50ZR47	ELECTROLYTIC	50V	0.47μF
C2207	ECQV1H224JZ	PLASTIC FILM	50V	220nF
C2208	ECQV1H104JZ	PLASTIC FILM	50V	100nF
C2209	ECQV1H224JZ	PLASTIC FILM	50V	220nF
C2210	ECQV1H224JZ	PLASTIC FILM	50V	220nF
C2211	ECQV1H104JZ	PLASTIC FILM	50V	100nF
C2212	ECKC1H103JB	CERAMIC	50V	10nF
C2213	ECEA1CU101	ELECTROLYTIC	16V	100μF
C2216	ECEA1EN4R7	ELECTROLYTIC	25V	4.7μF
C2217	ECEA1EN4R7	ELECTROLYTIC	25V	4.7μF
C2218	ECQM1H473J	PLASTIC FILM	50V	47nF
C2219	ECEA1CN470	ELECTROLYTIC	16V	47μF
C2220	ECQV1H474JZ	PLASTIC FILM	50V	470nF
C2221	ECQP1562JZ	PLASTIC FILM	100V	5.6nF
C2222	ECQM1H223J	PLASTIC FILM	50V	22nF
C2223	ECEA1CU101	ELECTROLYTIC	16V	100μF
C2224	ECCR1H120J	CERAMIC	50V	12pF

Ref No.	Part No.	Description		
C2225	ECQM1H102J	PLASTIC FILM	50V	1.0nF
C2226	ECQV1H104JZ	PLASTIC FILM	50V	100nF
C2227	ECEA1CN470	ELECTROLYTIC	16V	47μF
C2231	ECEA1EN3R3	ELECTROLYTIC	25V	3.3μF
C2232	ECEA1CN470	ELECTROLYTIC	16V	47μF
C2237	ECKC1H103JB	CERAMIC	50V	10nF
C2238	ECEA1HU010	ELECTROLYTIC	50V	01μF
C2239	ECKC1H103JB	CERAMIC	50V	10nF
C2240	ECEA1HU010	ELECTROLYTIC	50V	01μF
C2241	ECEA1HN010	ELECTROLYTIC	50V	01μF
C2242	ECEA1HN010	ELECTROLYTIC	50V	01μF
C2246	ECEA1CN470	ELECTROLYTIC	16V	47μF
C2247	ECEA1CU101	ELECTROLYTIC	16V	100μF
C2248	ECEA1CU101	ELECTROLYTIC	16V	100μF
C2252	ECKC1H103JB	CERAMIC	50V	10nF
C2303	ECEA1CU101	ELECTROLYTIC	16V	100μF
C2304	ECEA1EN4R7	ELECTROLYTIC	25V	4.7μF
C2305	ECQM1H392J	PLASTIC FILM	50V	3.9nF
C2306	ECEA1CU470	ELECTROLYTIC	16V	47μF
C2307	ECEA1EN4R7	ELECTROLYTIC	25V	4.7μF
C2308	ECQM1H103J	PLASTIC FILM	50V	10nF
C2309	ECQV1H224JZ	PLASTIC FILM	50V	220nF
C2310	ECQM1H103J	PLASTIC FILM	50V	10nF
C2311	ECEA1CU471	ELECTROLYTIC	16V	470μF
C2321	ECQM1H392J	PLASTIC FILM	50V	3.9nF
C2322	ECEA1CN100	ELECTROLYTIC	16V	10μF
C2326	ECQV1H124JZ	PLASTIC FILM	50V	120nF
C2327	ECQM1H103J	PLASTIC FILM	50V	10nF
C2328	ECEA1CN100	ELECTROLYTIC	16V	10μF
C2351	ECQM1H183J	PLASTIC FILM	50V	18nF
C2352	ECQM1H183J	PLASTIC FILM	50V	18nF
C2353	ECEA1HGNR47	ELECTROLYTIC	50V	0.47μF
C2354	ECEA1HGNR47	ELECTROLYTIC	50V	0.47μF
C2355	ECEA1EGE221	ELECTROLYTIC	25V	220μF
C2356	ECEA1EGE221	ELECTROLYTIC	25V	220μF
C2357	ECEA1VGE470	ELECTROLYTIC	35V	47μF
C2358	ECEA1VGE470	ELECTROLYTIC	35V	47μF
C2359	ECQV1H104JZ	PLASTIC FILM	50V	100nF
C2360	ECQV1H104JZ	PLASTIC FILM	50V	100nF
C2361	ECEA1HGE102	ELECTROLYTIC	50V	1000μF
C2362	ECEA1HGE102	ELECTROLYTIC	50V	1000μF
C2363	ECEA1HGE010	ELECTROLYTIC	50V	1μF
C2364	ECEA1VGE470	ELECTROLYTIC	35V	47μF
C2365	ECEA1HGE101	ELECTROLYTIC	50V	100μF
C2366	ECQM1H823J	PLASTIC FILM	50V	82nF
C2367	ECQM1H823J	PLASTIC FILM	50V	82nF
C2368	ECEA1HU472	ELECTROLYTIC	50V	4700μF
C2369	ECEA1HGE102	ELECTROLYTIC	50V	1000μF
C2370	ECQM1H273J	PLASTIC FILM	50V	27nF
C2371	ECQM1H273J	PLASTIC FILM	50V	27nF
C2372	ECQM1H472J	PLASTIC FILM	50V	4.7nF
C2373	ECQM1H472J	PLASTIC FILM	50V	4.7nF
C2382	ECKC1H102J	CERAMIC	50V	1.0nF
C2401	ECEA1EN4R7	ELECTROLYTIC	25V	4.7μF
C2410	ECEA1CN100	ELECTROLYTIC	16V	10μF
C2411	ECEA1HN4R7	ELECTROLYTIC	50V	4.7μF
C2412	ECEA1CU101	ELECTROLYTIC	16V	100μF
C2413	ECEA1CU470	ELECTROLYTIC	16V	47μF
C2414	ECEA1CU470	ELECTROLYTIC	16V	47μF
C2415	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2416	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2417	ECEA1CN100	ELECTROLYTIC	16V	10μF
C2418	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2419	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2421	ECKC1H103JB	CERAMIC	50V	10nF
C2423	ECEA1CU101	ELECTROLYTIC	16V	100μF
C2424	ECKC1H103JB	CERAMIC	50V	10nF
C2425	ECEA1CU471	ELECTROLYTIC	16V	470μF
C2426	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2427	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2428	ECEA1CN100	ELECTROLYTIC	16V	10μF
C2429	ECEA1CN100	ELECTROLYTIC	16V	10μF
C2430	ECEA1CU100	ELECTROLYTIC	16V	10μF
C2431	ECQV1H104JZ	PLASTIC FILM	50V	100nF
C2432	ECEA1CU221	ELECTROLYTIC	16V	220μF
C2433	ECEA1CN100	ELECTROLYTIC	16V	10μF
C2434	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2435	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2437	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2438	ECEA1EN4R7	ELECTROLYTIC	25V	4.7μF
C2439	ECEA1EN4R7	ELECTROLYTIC	25V	4.7μF
C2441	ECCR1H101J	CERAMIC	50V	100pF
C2442	ECCR1H101J	CERAMIC	50V	100pF
C2444	ECEA1CU470	ELECTROLYTIC	16V	47μF
C2445	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2446	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2447	ECEA1EN4R7	ELECTROLYTIC	25V	4.7μF
C2448	ECEA1HN010	ELECTROLYTIC	50V	1μF
C2449	ECEA1EN4R7	ELECTROLYTIC	25V	4.7μF
C2450	ECEA1HN010	ELECTROLYTIC	50V	1μF

Ref No.	Part No.	Description
D2162	MA4051	DIODE
D2201	MA700TA5	DIODE
D2202	MA165TA5	DIODE
D2203	MA165TA5	DIODE
D2204	MA700TA5	DIODE
D2205	MA165TA5	DIODE
D2207	MA165TA5	DIODE
D2209	MA165TA5	DIODE
D2211	MA165TA5	DIODE
D2215	MA700TA5	DIODE
D2216	MA700TA5	DIODE
D2304	MA165TA5	DIODE
D2351	TVSRD13FB	DIODE
D2402	MA165TA5	DIODE
D2405	MA165TA5	DIODE
D2406	MA165TA5	DIODE
D2408	MA165TA5	DIODE
D2409	MA165TA5	DIODE
D2410	MA165TA5	DIODE
D2411	MA165TA5	DIODE
D2603	MA165TA5	DIODE
D2605	MA165TA5	DIODE
D2607	MA165TA5	DIODE
D2610	MA150TA	DIODE
D2612	MA165TA5	DIODE
D2614	MA165TA5	DIODE
D2615	MA700TA5	DIODE
D2628	MA858TA5	DIODE
D2629	MA165TA5	DIODE
D3502	MA165TA5	DIODE
D3503	MA165TA5	DIODE
D3504	MA165TA5	DIODE
D3505	MA165TA5	DIODE
D3516	MA165TA5	DIODE
D3517	MA165TA5	DIODE
D3527	MA4082	DIODE
D3528	MA165TA5	DIODE
D3529	MA165TA5	DIODE
D3530	MA165TA5	DIODE
D3543	MA165TA5	DIODE
D3545	MA700TA5	DIODE
I.C.s		
IC70	UPC574J	REGULATOR
IC101	M51367SP	V. I. F.
IC171	SAB3035	CITAC
IC201	AN5836	AUDIO CONTROL
IC451	AN5521	I. C.
IC501	TDA2579A	SYNC CIRCUIT
IC601	TDA4555	MULTI STANDARD DECODER
IC602	TDA3505	VIDEO CONTROL
IC651	TDA4565	C. T. I.
IC801	STR54041-M	REGULATOR
IC851	L78M12MRB	12V REGULATOR
IC1101	UPC1474HA	I. R. RECEIVER
IC1202	PCD8582	MEMORY
IC1203	MAB8461PW134	MICROPROCESSOR
IC1204	L78M05MRB	5V REGULATOR
IC1205	SAA1064	DISPLAY DRIVER
IC2101	AN5136K	BILINGUAL DECODER
IC2102	AN5215	S. I. F.
IC2151	TDA2543	SECAM S. I. F.
IC2170	TC4011BP	SWITCH
IC2201	TDA3803A	MATRIX
IC2270	UPD4066BC	SWITCH
IC2271	L78M12MRB	12V REGULATOR
IC2272	TC4023BP	SWITCH
IC2302	TDA3810	AMBIENCE CONTROL
IC2351	STK4392TV	AUDIO AMPLIFIER
IC2401	M51321P	SWITCHING
IC2402	L78M12MRB	12V REGULATOR
IC2403	UPD4066BC	SWITCH
IC2601	M51326P	TV/AV SWITCH
IC3501	SAA5231	TELETEXT VIP
IC3502	SAA5243P-E	CHARACTER GENERATOR
IC3505	L78M05MRB	5V REGULATOR
IC3506	M68400P-12L	64K RAM MEMORY
IC3507	PCB80C652	I. C.
IC3508	27C256-20N	I. C.
IC3509	PC74HC373P	I. C.
COILS		
L12	TLT082L991R	COIL
L16	TLT082L991R	COIL
L17	TLT082L991R	COIL
L18	TLT082L991R	COIL

Ref No.	Part No.	Description
L104	TLT120K991R	COIL
L105	EIV7EN027B	COIL
L107	EIV1EG040B	TRANSFORMER
L109	TLT560K991R	COIL
L120	TLT082L991R	COIL
L121	TLT100K991R	COIL
L171	TLT082L991R	COIL
L175	EXCELD35V	COIL
L176	EXCELD35V	COIL
L251	TL5159054E	COIL
L252	TL5159054E	COIL
L253	TL5159054E	COIL
L281	TL5159054E	COIL
L282	TL5159054E	COIL
L283	TL5159054E	COIL
L284	TL5159054E	COIL
L303	TLT100K991R	COIL
L351	TLT181K991R	COIL
L352	TLT181K991R	COIL
L353	TLT181K991R	COIL
L354	TLT047L991R	COIL
L355	EXCELD35V	COIL
L356	EXCELD35V	COIL
L357	EXCELD35V	COIL
L451	TLT082L991R	COIL
L552	ELC08D055	COIL
L553	ELH5L403	COIL
L554	ELC12B004	COIL
L555	TSC937	CHOKE
L602	TLT082K991R	COIL
L603	TLK158066	COIL
L605	EIK7EG013B	COIL
L606	EIK7EG013B	COIL
L607	EIK7EG012B	COIL
L609	EIK7EG011B	COIL
L681	TLT220K991R	COIL
L682	TLT390K991R	COIL
L752	ELC10D006	COIL
L801	ELF18D650L	FILTER
L802	ELF18D650L	FILTER
L803	TSC930-4	CHOKE
L804	TSC930-4	CHOKE
L806	TSC930-4	CHOKE
L808	TLT101K991R	COIL
L809	TLQ047K236B	COIL
L852	EXCELD35V	COIL
L853	TLT030L119C	COIL
L855	TSC925-4	CHOKE
L857	TSC930-4	CHOKE
L1101	TLT542K991K	COIL
L1102	EIR7QG001B	COIL
L1201	TLQ082K236T	COIL
L1202	TLQ082K236T	COIL
L1211	TLQ082K236T	COIL
L2101	EIV7EN036B	TRANSFORMER
L2104	EIS7EN009B	TRANSFORMER
L2105	EIS7EN009B	TRANSFORMER
L2106	TLI157X55	COIL
L2113	TLT120K991R	COIL
L2151	EIV7EN029B	COIL
L2152	TLT150K991R	COIL
L2153	TLT150K991R	COIL
L2201	EIR7QG017B	COIL
L2202	TLT102K991R	COIL
L2203	EIS7EG015B	COIL
L2205	TSC930-4	CHOKE
L2231	TLT560K991R	COIL
L2232	TLT392J993R	COIL
L2301	TLT100K991R	COIL
L2451	EXCELD35V	COIL
L2452	EXCELD35V	COIL
L2603	TLT220K991R	COIL
L2604	TLT220K991R	COIL
L3501	TLT150K991R	COIL
L3502	TLT100K991R	COIL
L3503	TLT047K991R	COIL
L3505	TLT100K991R	COIL
LC601	ELB4K102	COIL
LC2230	ELB5A074	COIL
TRANSISTORS		
Q103	2SC1215TA	TRANSISTOR
Q104	UN4211TA	TRANSISTOR
Q105	2SC1685-TA	TRANSISTOR
Q201	UN4111TA	TRANSISTOR
Q202	UN4211TA	TRANSISTOR
Q304	2SC3311ATA	TRANSISTOR
Q306	UN4211TA	TRANSISTOR

Ref No.	Part No.	Description
C2453	ECEA1CN100	ELECTROLYTIC 16V 10μF
C2456	ECEA1CN100	ELECTROLYTIC 16V 10μF
C2461	ECEA1HU2R2	ELECTROLYTIC 50V 2.2μF
C2462	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C2463	ECEA1CU101	ELECTROLYTIC 16V 100μF
C2464	ECKC1H103JB	CERAMIC 50V 10nF
C2465	ECKR1H222KB	CERAMIC 50V 2.2nF
C2466	ECKR1H222KB	CERAMIC 50V 2.2nF
C2467	ECKR1H222KB	CERAMIC 50V 2.2nF
C2468	ECKR1H222KB	CERAMIC 50V 2.2nF
C2469	ECKC1H222J	CERAMIC 50V 2.2nF
C2470	ECKC1H222J	CERAMIC 50V 2.2nF
C2601	ECKC1H103JB	CERAMIC 50V 10nF
C2602	ECEA1EN4R7	ELECTROLYTIC 25V 4.7μF
C2603	ECEA1CN100	ELECTROLYTIC 16V 10μF
C2606	ECEA1CU471	ELECTROLYTIC 16V 470μF
C2607	ECEA1CU100	ELECTROLYTIC 16V 10μF
C2608	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C2609	ECEA1EN4R7	ELECTROLYTIC 25V 4.7μF
C2610	ECEA1CU470	ELECTROLYTIC 16V 47μF
C2611	ECEA1CU470	ELECTROLYTIC 16V 47μF
C2612	ECEA1CN100	ELECTROLYTIC 16V 10μF
C2613	ECEA1CU471	ELECTROLYTIC 16V 470μF
C2614	ECKC1H271J	CERAMIC 50V 270pF
C2619	ECKC1H471J	CERAMIC 50V 470pF
C2621	ECKC1H222J	CERAMIC 50V 2.2nF
C2622	ECKC1H222J	CERAMIC 50V 2.2nF
C2623	ECKR1H222KB	CERAMIC 50V 2.2nF
C2624	ECKR1H222KB	CERAMIC 50V 2.2nF
C2627	ECEA1EN4R7	ELECTROLYTIC 25V 4.7μF
C2628	ECEA1CU100	ELECTROLYTIC 16V 10μF
C2629	ECEA1CN220	ELECTROLYTIC 16V 22μF
C3502	ECCR1H150J	CERAMIC 50V 15pF
C3503	ECKC1H102J	CERAMIC 50V 1.0nF
C3504	ECKC1H471J	CERAMIC 50V 470pF
C3505	ECQM1H223J	PLASTIC FILM 50V 22nF
C3506	ECKC1H271J	CERAMIC 50V 270pF
C3507	ECCR1H101J	CERAMIC 50V 100pF
C3508	ECCR1H150J	CERAMIC 50V 15pF
C3509	ECCR1H270J	CERAMIC 50V 27pF
C3510	ECQM1H683J	PLASTIC FILM 50V 68nF
C3511	ECCR1H221J	CERAMIC 50V 220pF
C3512	ECQM1H473J	PLASTIC FILM 50V 47nF
C3513	ECEA1CU100	ELECTROLYTIC 16V 10μF
C3515	ECQM1H473J	PLASTIC FILM 50V 47nF
C3516	ECQV1H224JZ	PLASTIC FILM 50V 220nF
C3517	ECKC1H103JB	CERAMIC 50V 10nF
C3521	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C3522	ECEA1HU2R2	ELECTROLYTIC 50V 2.2μF
C3523	ECEA0JU101	ELECTROLYTIC 6.3V 100μF
C3524	ECEA0JU222	ELECTROLYTIC 6.3V 2200μF
C3525	ECEA1CU470	ELECTROLYTIC 16V 47μF
C3526	ECKC1H103JB	CERAMIC 50V 10nF
C3527	ECCR1H180J	CERAMIC 50V 18pF
C3528	ECRLA020E53R	TRIMMER CAPACITOR 20pF
C3532	ECKC1H103JB	CERAMIC 50V 10nF
C3533	ECQM1H223J	PLASTIC FILM 50V 22nF
C3534	ECEA1CU220	ELECTROLYTIC 16V 22μF
C3536	ECKC1H103JB	CERAMIC 50V 10nF
C3550	ECEA1HN010	ELECTROLYTIC 50V 01μF
C3552	ECKC1H103JB	CERAMIC 50V 10nF
C3553	ECEA1CU221	ELECTROLYTIC 16V 220μF
C3554	ECCR1H100J	CERAMIC 50V 10pF
C3555	ECEA1CN330	ELECTROLYTIC 16V 33μF
C3556	ECCR1H100J	CERAMIC 50V 10pF
C3558	ECRBA160N11	TRIMMER CAPACITOR 160pF
C3559	ECCR1H560J	CERAMIC 50V 56pF
C3565	ECCR1H070J	CERAMIC 50V 07pF
C3566	ECKC1H821J	CERAMIC 50V 820pF
C3567	ECKC1H821J	CERAMIC 50V 820pF
C3568	ECKC1H821J	CERAMIC 50V 820pF
C3570	ECEA0JU471	ELECTROLYTIC 6.3V 470μF
C3576	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C3577	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C3578	ECKC1H103JB	CERAMIC 50V 10nF
C3579	ECEA0JU101	ELECTROLYTIC 6.3V 100μF
C3580	ECKC1H103JB	CERAMIC 50V 10nF
C3581	ECEA1HU010	ELECTROLYTIC 50V 01μF
C3582	ECEA0JU471	ELECTROLYTIC 6.3V 470μF
C3583	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C3584	ECEA0JU101	ELECTROLYTIC 6.3V 100μF
C3585	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C3586	ECQV1H104JZ	PLASTIC FILM 50V 100nF
C3587	ECCR1H330J	CERAMIC 50V 33pF
C3588	ECCR1H270J	CERAMIC 50V 27pF

DIODES

Ref No.	Part No.	Description
D102	MA858TA5	DIODE
D103	MA858TA5	DIODE
D171	MA4082	DIODE
D174	MA165TA5	DIODE
D177	MA150TA	DIODE
D179	MA4047	DIODE
D181	MA4082	DIODE
D182	MA4082	DIODE
D201	MA165TA5	DIODE
D202	MA165TA5	DIODE
D203	MA165TA5	DIODE
D204	MA165TA5	DIODE
D205	MA165TA5	DIODE
D206	MA165TA5	DIODE
D303	MA165TA5	DIODE
D305	MA4130	DIODE
D306	MA4130	DIODE
D307	MA4130	DIODE
D313	MA27TA5	DIODE
D314	MA4033	DIODE
D319	MA165TA5	DIODE
D320	MA165TA5	DIODE
D321	MA165TA5	DIODE
D328	MA4056	DIODE
D329	MA1033MTA	DIODE
D330	MA858TA5	DIODE
D403	MA27TA5	DIODE
D451	ERA15-02V3	DIODE
D452	MA165TA5	DIODE
D453	MA165TA5	DIODE
D501	ERA15-02V3	DIODE
D505	MA165TA5	DIODE
D508	MA4051	DIODE
D510	MA165TA5	DIODE
D511	MA4047	DIODE
D541	MA4360	DIODE
D551	ERA22-02V3	DIODE
D552	MA167TA5	DIODE
D554	ERA22-02V3	DIODE
D603	MA4056	DIODE
D604	MA858TA5	DIODE
D671	MA858TA5	DIODE
D754	TVSRU2AM	DIODE
D755	MA4200	DIODE
D757	MA165TA5	DIODE
D758	MA165TA5	DIODE
D801	D4SB80Z	DIODE BRIDGE
D804	ERZC100K621	DIODE
D805	232266296009	DIODE
D807	ERA22-04V3	DIODE
D809	ERA22-02V3	DIODE
D810	ERA22-08V3	DIODE
D811	TLP621GR-LF2	DIODE COUPLER
D812	MA150TA	DIODE
D851	TVSC2408M	DIODE
D852	EU02	DIODE
D853	ERD32-02L7	DIODE
D854	TVSSR2KL	DIODE
D855	ERD32-02L7	DIODE
D1101	PN323B-LFHT	DIODE
D1205	MA165TA5	DIODE
D1206	MA165TA5	DIODE
D1207	MA165TA5	DIODE
D1208	MA165TA5	DIODE
	(ON M PCB)	
D1208	TVSS1WBS10	DIODE
	(ON E PCB)	
D1217	MA165TA5	DIODE
D1220	MA165TA5	DIODE
D1221	MA4082	DIODE
D1225	MA4082	DIODE
D1228	MA4082	DIODE
D1229	MA4082	DIODE
D1231	MA165TA5	DIODE
D1232	MA165TA5	DIODE
D1234	MA4082	DIODE
D1244	MA165TA5	DIODE
D1251	LN81RPHL	DIODE
D1253	LN526GALT	DIODE
D1255	LN063183P5	DIODE
D1267	MA4082	DIODE
D1268	MA4082	DIODE
D1310	MA4091	DIODE
D1311	MA165TA5	DIODE
D1312	MA165TA5	DIODE
D1313	MA4091	DIODE
D1315	MA700TA5	DIODE
D2151	MA858TA5	DIODE
D2152	MA858TA5	DIODE
D2153	MA858TA5	DIODE

Ref No.	Part No.	Description	
R342	ERD25TJ101	CARBON 0.25W 5%	100K
R343	ERD25TJ152	CARBON 0.25W 5%	1.5K
R344	ERD25TJ104	CARBON 0.25W 5%	100K
R345	ERO25CKF3001	METAL 0.25W 5% Δ	3.00K
R346	ERO25CKF3001	METAL 0.25W 5% Δ	3.00K
R349	ERD25TJ683	CARBON 0.25W 5%	68K
R351	ERG2ANJ103	METAL 2W Δ 5%	10K
R352	ERG2ANJ103	METAL 2W Δ 5%	10K
R353	ERG2ANJ103	METAL 2W Δ 5%	10K
R354	ERD25TJ181	CARBON 0.25W 5%	180K
R355	ERD25TJ271	CARBON 0.25W 5%	270K
R356	ERD25TJ181	CARBON 0.25W 5%	180K
R357	EVN65UA00B22	GREEN DRIVE	200K
R358	EVN65UA00B22	RED DRIVE	200K
R359	ERD25TJ471	CARBON 0.25W 5%	470K
R360	ERD25TJ471	CARBON 0.25W 5%	470K
R361	ERD25TJ471	CARBON 0.25W 5%	470K
R362	EVN65UA00B53	GREEN CUTOFF	5K
R363	EVN65UA00B53	BLUE CUTOFF	5K
R364	EVN65UA00B53	RED CUTOFF	5K
R365	ERDS1FJ152	CARBON 0.5W 5%	1.5K
R366	ERDS1TJ152	CARBON 0.5W 5%	1.5K
R367	ERDS1TJ152	CARBON 0.5W 5%	1.5K
R374	ERD25TJ274	CARBON 0.25W 5%	270K
R375	ERD25TJ393	CARBON 0.25W 5%	39K
R376	ERD25TJ684	CARBON 0.25W 5%	680K
R390	ERDS1TJ124	CARBON 0.5W 5%	120K
R391	ERD25TJ103	CARBON 0.25W 5%	10K
R392	ERD25TJ561	CARBON 0.25W 5%	560K
R393	ERD25TJ561	CARBON 0.25W 5%	560K
R394	ERD25TJ561	CARBON 0.25W 5%	560K
R402	ERD25TJ102	CARBON 0.25W 5%	1.0K
R403	ERD25TJ184	CARBON 0.25W 5%	180K
R404	ERD25TJ274	CARBON 0.25W 5%	270K
R405	EVNDXAA00B25	VERTICAL HEIGHT	200K
R406	ERD25TJ564	CARBON 0.25W 5%	560K
R407	ERD25TJ222	CARBON 0.25W 5%	2.2K
R408	ERD25TJ102	CARBON 0.25W 5%	1.0K
R409	ERD25TJ393	CARBON 0.25W 5%	39K
R410	ERD25TJ822	CARBON 0.25W 5%	8.2K
R423	ERD25TJ684	CARBON 0.25W 5%	680K
R452	ERD25TJ392	CARBON 0.25W 5%	3.9K
R453	ERD25TJ332	CARBON 0.25W 5%	3.3K
R454	ERD25TJ392	CARBON 0.25W 5%	3.9K
R458	ERD25TJ822	CARBON 0.25W 5%	8.2K
R459	ERD25TJ363	CARBON 0.25W 5%	36K
R461	ERD25TJ1R0	CARBON 0.25W 5%	1.0K
R462	ERDS1TJ1R8	CARBON 0.5W 5%	1.8K
R463	ERD25TJ223	CARBON 0.25W 5%	22K
R464	ERD25TJ561	CARBON 0.25W 5%	560K
R465	ERDS1TJ102	CARBON 0.5W 5%	1.0K
R467	ERD25TJ153	CARBON 0.25W 5%	15K
R469	ERD25TJ471	CARBON 0.25W 5%	470K
R470	ERG2SJU391	METAL 2W Δ 5%	390K
R474	ERDS1TJ471	CARBON 0.5W 5%	470K
R475	ERDS1TJ152	CARBON 0.5W 5%	1.5K
R476	ERD25TJ473	CARBON 0.25W 5%	47K
R477	ERD25TJ562	CARBON 0.25W 5%	5.6K
R478	ERD25TJ1R5	CARBON 0.25W 5%	1.5K
R479	ERD25TJ1R0	CARBON 0.25W 5%	1.0K
R484	TSF19801	FUSABLE LINK Δ	
R502	EVNDXAA00B14	HORIZONTAL FREQUENCY	10K
R503	ERO25CKF3002	METAL 0.25W 5% Δ	30.0K
R505	ERD25TJ563	CARBON 0.25W 5%	56K
R506	ERD25TJ682	CARBON 0.25W 5%	6.8K
R507	EVNDXAA00B54	HORIZONTAL CENTRE	50K
R508	ERD25TJ683	CARBON 0.25W 5%	68K
R511	ERD25TJ682	CARBON 0.25W 5%	6.8K
R512	ERD25TJ820	CARBON 0.25W 5%	82K
R513	ERD25TJ102	CARBON 0.25W 5%	1.0K
R514	ERD25TJ562	CARBON 0.25W 5%	5.6K
R515	ERD25TJ471	CARBON 0.25W 5%	470K
R518	ERD25TJ391	CARBON 0.25W 5%	390K
R519	ERD25TJ562	CARBON 0.25W 5%	5.6K
R520	ERD25TJ153	CARBON 0.25W 5%	15K
R521	ERD25TJ102	CARBON 0.25W 5%	1.0K
R522	ERD25TJ473	CARBON 0.25W 5%	47K
R523	ERD25TJ102	CARBON 0.25W 5%	1.0K
R527	ERO25CKF8201	METAL 0.25W 5% Δ	8.20K
R528	ERO25CKF3901	METAL 0.25W 5% Δ	3.90K
R529	ERD25TJ101	CARBON 0.25W 5%	100K
R531	ERD25TJ222	CARBON 0.25W 5%	2.2K
R532	ERD25TJ562	CARBON 0.25W 5%	5.6K
R533	ERG2ANJ391	METAL 2W Δ 5%	390K
R534	ERD25TJ333	CARBON 0.25W 5%	33K
R535	ERD25TJ392	CARBON 0.25W 5%	3.9K
R536	ERD25TJ103	CARBON 0.25W 5%	10K
R537	ERD25TJ562	CARBON 0.25W 5%	5.6K
R538	ERD25TJ472	CARBON 0.25W 5%	4.7K
R542	ERD25TJ474	CARBON 0.25W 5%	470K

Ref No.	Part No.	Description	
R543	ERD25TJ103	CARBON 0.25W 5%	10K
R545	ERD25TJ103	CARBON 0.25W 5%	10K
R547	ERD25TJ474	CARBON 0.25W 5%	470K
R551	ERF7ZJ100	WOUND 7W 10%	10K
R554	ERQ14AJ151	FILM 0.25W 5% Δ	150K
R556	ERQ12HJ1R2	FILM 0.5W 5% Δ	1.2K
R557	ERQ12HKR33	ILM 0.5W 10% Δ	0.33K
R561	ERD25TJ153	CARBON 0.25W 5%	15K
R562	ERD25TJ124	CARBON 0.25W 5%	120K
R565	ERQ1CJP102	FILM 1W 5% Δ	1.0K
R567	TSF19102	FUSABLE LINK Δ	
R568	ERD25TJ274	CARBON 0.25W 5%	270K
R570	ERD25TJ332	CARBON 0.25W 5%	3.3K
R571	ERD25TJ472	CARBON 0.25W 5%	4.7K
R572	ERD25TJ683	CARBON 0.25W 5%	68K
R604	ERD25TJ183	CARBON 0.25W 5%	18K
R606	EVNDXAA00B14	SUB COLOUR	10K
R607	ERD25TJ103	CARBON 0.25W 5%	10K
R608	ERD25TJ271	CARBON 0.25W 5%	270K
R609	EVNDXAA00B52	DELAY LINE ADJUST	500K
R610	ERD25TJ391	CARBON 0.25W 5%	390K
R611	ERD25TJ122	CARBON 0.25W 5%	1.2K
R612	ERD25TJ512	CARBON 0.25W 5%	5.1K
R615	ERD25TJ122	CARBON 0.25W 5%	1.2K
R616	ERD25TJ101	CARBON 0.25W 5%	100K
R617	ERD25TJ101	CARBON 0.25W 5%	100K
R618	ERD25TJ101	CARBON 0.25W 5%	100K
R619	ERD25TJ562	CARBON 0.25W 5%	5.6K
R620	ERD25TJ101	CARBON 0.25W 5%	100K
R623	ERD25TJ681	CARBON 0.25W 5%	680K
R624	ERD25TJ152	CARBON 0.25W 5%	1.5K
R625	ERD25TJ153	CARBON 0.25W 5%	15K
R626	ERD25TJ822	CARBON 0.25W 5%	8.2K
R627	ERD25TJ332	CARBON 0.25W 5%	3.3K
R628	ERD25TJ681	CARBON 0.25W 5%	680K
R631	ERD25TJ153	CARBON 0.25W 5%	15K
R632	ERD25TJ333	CARBON 0.25W 5%	33K
R633	ERD25TJ333	CARBON 0.25W 5%	33K
R634	ERD25TJ222	CARBON 0.25W 5%	2.2K
R635	ERD25TJ103	CARBON 0.25W 5%	10K
R636	ERD25TJ102	CARBON 0.25W 5%	1.0K
R639	ERD25TJ105	CARBON 0.25W 5%	1.0M
R643	ERD25TJ221	CARBON 0.25W 5%	220K
R651	ERD25TJ470	CARBON 0.25W 5%	47K
R652	ERD25TJ470	CARBON 0.25W 5%	47K
R653	ERD25TJ122	CARBON 0.25W 5%	1.2K
R654	ERD25TJ562	CARBON 0.25W 5%	5.6K
R655	ERD25TJ822	CARBON 0.25W 5%	8.2K
R656	ERQ14AJ4R7	FILM 0.25W 5% Δ	4.7K
R657	ERD25TJ102	CARBON 0.25W 5%	1.0K
R658	ERD25TJ102	CARBON 0.25W 5%	1.0K
R660	ERD25TJ103	CARBON 0.25W 5%	10K
R674	ERD25TJ102	CARBON 0.25W 5%	1.0K
R675	ERD25TJ221	CARBON 0.25W 5%	220K
R676	ERD25TJ274	CARBON 0.25W 5%	270K
R677	ERD25TJ393	CARBON 0.25W 5%	39K
R678	ERD25TJ222	CARBON 0.25W 5%	2.2K
R679	ERD25TJ103	CARBON 0.25W 5%	10K
R680	ERD25TJ154	CARBON 0.25W 5%	150K
R681	ERD25TJ103	CARBON 0.25W 5%	10K
R682	ERD25TJ392	CARBON 0.25W 5%	3.9K
R683	ERD25TJ223	CARBON 0.25W 5%	22K
R684	ERD25TJ392	CARBON 0.25W 5%	3.9K
R685	ERD25TJ392	CARBON 0.25W 5%	3.9K
R686	ERD25TJ101	CARBON 0.25W 5%	100K
R687	ERD25TJ222	CARBON 0.25W 5%	2.2K
R688	ERD25TJ821	CARBON 0.25W 5%	820K
R689	ERD25TJ331	CARBON 0.25W 5%	330K
R690	ERD25TJ681	CARBON 0.25W 5%	680K
R691	ERD25TJ153	CARBON 0.25W 5%	15K
R692	ERD25TJ392	CARBON 0.25W 5%	3.9K
R693	ERD25TJ222	CARBON 0.25W 5%	2.2K
R751	ERO25CKF1803	METAL 0.25W 5% Δ	180K
R752	ERO25CKF1502	METAL 0.25W 5% Δ	15.0K
R753	ERD25TJ303	CARBON 0.25W 5%	30K
R754	ERD25TJ224	CARBON 0.25W 5%	220K
R756	ERD25TJ103	CARBON 0.25W 5%	10K
R757	ERD25TJ102	CARBON 0.25W 5%	1.0K
R758	EVNDXAA00B24	PARABOLA	20K
R759	EVNDXAA00B53	WIDTH	5K
R760	ERD25TJ222	CARBON 0.25W 5%	2.2K
R761	ERD25TJ183	CARBON 0.25W 5%	18K
R762	ERD25TJ683	CARBON 0.25W 5%	68K
R764	ERD25TJ274	CARBON 0.25W 5%	270K
R766	ERD25TJ272	CARBON 0.25W 5%	2.7K
R767	ERG1ANJ471	METAL 1W Δ 5%	470K
R768	ERD25TJ182	CARBON 0.25W 5%	1.8K
R769	ERD25TJ472	CARBON 0.25W 5%	4.7K
R770	ERQ12HJ220	FILM 0.5W 5% Δ	22K
R771	ERD25TJ684	CARBON 0.25W 5%	680K

Ref No.	Part No.	Description
Q351	2SC2923-RL	TRANSISTOR
Q352	2SC2923-RL	TRANSISTOR
Q353	2SC2923-RL	TRANSISTOR
Q365	2SC1685-TA	TRANSISTOR
Q366	2SC1685-TA	TRANSISTOR
Q367	2SC1685-TA	TRANSISTOR
Q401	2SC3311ATA	TRANSISTOR
Q501	2SD836-AL	TRANSISTOR
Q502	2SC3311ATA	TRANSISTOR
Q503	2SC3311ATA	TRANSISTOR
Q504	UN4213TA	TRANSISTOR
Q541	2SA1309ATA	TRANSISTOR
Q542	2SC3311ATA	TRANSISTOR
Q551	2SD1441-RL	TRANSISTOR
Q601	2SC3311ATA	TRANSISTOR
Q602	2SC3311ATA	TRANSISTOR
Q654	UN4213TA	TRANSISTOR
Q671	2SC3311ATA	TRANSISTOR
Q672	2SA719-TA	TRANSISTOR
Q673	2SD965-R	TRANSISTOR
Q674	2SA1309ATA	TRANSISTOR
Q675	2SC3311ATA	TRANSISTOR
Q751	2SC3311ATA	TRANSISTOR
Q752	2SA1309ATA	TRANSISTOR
Q753	2SD762-P	TRANSISTOR
Q801	2SD965-R	TRANSISTOR
Q802	2SD965-R	TRANSISTOR
Q1205	2SC1685-TA	TRANSISTOR
Q1207	UN4213TA	TRANSISTOR
Q1208	UN4215TA	TRANSISTOR
Q1209	2SC1685-TA	TRANSISTOR
Q1210	UN4215TA	TRANSISTOR
Q1211	UN4215TA	TRANSISTOR
Q1212	2SC1685-TA	TRANSISTOR
Q1220	UN411FTA	TRANSISTOR
Q1225	UN4210TA	TRANSISTOR
Q1227	UN4112TA	TRANSISTOR
Q1228	UN411FTA	TRANSISTOR
Q1230	UN4215TA	TRANSISTOR
Q1232	2SA564-S	TRANSISTOR
Q1235	2SC1685-TA	TRANSISTOR
Q1236	UN411FTA	TRANSISTOR
Q1310	2SA564-S	TRANSISTOR
Q1311	2SC1685-TA	TRANSISTOR
Q1312	2SA564-S	TRANSISTOR
Q1313	2SC1685-TA	TRANSISTOR
Q2101	BF370	TRANSISTOR
Q2103	2SC1215TA	TRANSISTOR
Q2110	2SC1215TA	TRANSISTOR
Q2151	UN4212TA	TRANSISTOR
Q2152	UN4212TA	TRANSISTOR
Q2160	UN4213TA	TRANSISTOR
Q2201	2SC1685-TA	TRANSISTOR
Q2207	UN4212TA	TRANSISTOR
Q2210	UN4211TA	TRANSISTOR
Q2401	UN4123TA	TRANSISTOR
Q2403	UN4211TA	TRANSISTOR
Q2404	UN4212TA	TRANSISTOR
Q2405	2SC1685-TA	TRANSISTOR
Q2406	UN4212TA	TRANSISTOR
Q2407	UN4212TA	TRANSISTOR
Q2408	UN4112TA	TRANSISTOR
Q2409	UN4212TA	TRANSISTOR
Q2410	UN4212TA	TRANSISTOR
Q2413	2SC1318-S	TRANSISTOR
Q2414	2SC1685-TA	TRANSISTOR
Q2415	2SC1685-TA	TRANSISTOR
Q2416	2SC1685-TA	TRANSISTOR
Q2417	2SC1685-TA	TRANSISTOR
Q2420	2SC1685-TA	TRANSISTOR
Q2421	2SC1685-TA	TRANSISTOR
Q2422	2SC1685-TA	TRANSISTOR
Q2423	2SC1685-TA	TRANSISTOR
Q2424	2SC1685-TA	TRANSISTOR
Q2426	2SC1685-TA	TRANSISTOR
Q2427	UN4212TA	TRANSISTOR
Q2428	2SC1685-TA	TRANSISTOR
Q2456	2SC1685-TA	TRANSISTOR
Q2601	2SC1685-TA	TRANSISTOR
Q2602	2SC1685-TA	TRANSISTOR
Q2604	2SA1309ATA	TRANSISTOR
Q2605	2SC1318-S	TRANSISTOR
Q2606	UN4211TA	TRANSISTOR
Q2608	UN4213TA	TRANSISTOR
Q3501	2SC1685-TA	TRANSISTOR
Q3502	2SC1685-TA	TRANSISTOR
Q3503	2SC1685-TA	TRANSISTOR
Q3504	2SC1685-TA	TRANSISTOR
Q3505	2SC1685-TA	TRANSISTOR
Q3506	2SC1685-TA	TRANSISTOR

Ref No.	Part No.	Description
Q3513	2SC1685-TA	TRANSISTOR
Q3514	2SA564-S	TRANSISTOR
Q3515	2SC1685-TA	TRANSISTOR
Q3516	2SA1309ATA	TRANSISTOR
Q3522	2SA1309ATA	TRANSISTOR
RESISTORS		
R13	ERD25TJ470	CARBON 0.25W 5% 47Ω
R70	ERG1ANJ273	METAL 1W Δ 5% 27KΩ
R71	ERD25TJ221	CARBON 0.25W 5% 220Ω
R105	ERD25TJ392	CARBON 0.25W 5% 3.9KΩ
R106	EVNDCAA03B14	I. F. AGC 10KΩ
R107	ERD25TJ471	CARBON 0.25W 5% 470Ω
R108	EVNDCAA03B54	R. F. AGC 50KΩ
R110	ERD25TJ223	CARBON 0.25W 5% 22KΩ
R111	ERD25TJ681	CARBON 0.25W 5% 680Ω
R112	ERD25TJ201	CARBON 0.25W 5% 200Ω
R113	ERD25TJ472	CARBON 0.25W 5% 4.7KΩ
R114	ERD25TJ912	CARBON 0.25W 5% 9.1KΩ
R115	ERD25TJ303	CARBON 0.25W 5% 30KΩ
R116	ERD25TJ102	CARBON 0.25W 5% 1.0KΩ
R117	ERD25TJ272	CARBON 0.25W 5% 2.7KΩ
R118	ERD25TJ682	CARBON 0.25W 5% 6.8KΩ
R119	ERD25TJ224	CARBON 0.25W 5% 220KΩ
R120	ERD25TJ224	CARBON 0.25W 5% 220KΩ
R121	ERD25TJ184	CARBON 0.25W 5% 180KΩ
R122	ERD25TJ331	CARBON 0.25W 5% 330Ω
R123	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R125	ERD25TJ222	CARBON 0.25W 5% 2.2KΩ
R135	ERD25TJ332	CARBON 0.25W 5% 3.3KΩ
R136	ERD25TJ222	CARBON 0.25W 5% 2.2KΩ
R137	ERQ12HJ330	FILM 0.5W 5% Δ 33Ω
R139	ERD25TJ562	CARBON 0.25W 5% 5.6KΩ
R140	ERD25TJ751	CARBON 0.25W 5% 750Ω
R141	ERD25TJ222	CARBON 0.25W 5% 2.2KΩ
R142	ERD25TJ563	CARBON 0.25W 5% 56KΩ
R143	ERD25TJ271	CARBON 0.25W 5% 270Ω
R145	ERD25TJ684	CARBON 0.25W 5% 680KΩ
R151	ERD25TJ101	CARBON 0.25W 5% 100Ω
R152	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R153	ERD25TJ274	CARBON 0.25W 5% 270KΩ
R154	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R155	ERD25TJ104	CARBON 0.25W 5% 100KΩ
R156	ERD25TJ222	CARBON 0.25W 5% 2.2KΩ
R157	ERD25TJ472	CARBON 0.25W 5% 4.7KΩ
R162	ERD25TJ331	CARBON 0.25W 5% 330Ω
R171	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R177	ERD25TJ101	CARBON 0.25W 5% 100Ω
R178	ERD25TJ102	CARBON 0.25W 5% 1.0KΩ
R179	ERD25TJ102	CARBON 0.25W 5% 1.0KΩ
R180	ERD25TJ562	CARBON 0.25W 5% 5.6KΩ
R181	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R182	ERD25TJ123	CARBON 0.25W 5% 12KΩ
R184	ERD25TJ221	CARBON 0.25W 5% 220Ω
R185	ERD25TJ221	CARBON 0.25W 5% 220Ω
R187	ERD25TJ473	CARBON 0.25W 5% 47KΩ
R188	ERG1SJ101	METAL 1W Δ 5% 100Ω
R211	ERD25TJ222	CARBON 0.25W 5% 2.2KΩ
R212	ERD25TJ123	CARBON 0.25W 5% 12KΩ
R213	ERD25TJ123	CARBON 0.25W 5% 12KΩ
R214	ERD25TJ102	CARBON 0.25W 5% 1.0KΩ
R215	ERD25TJ562	CARBON 0.25W 5% 5.6KΩ
R216	ERD25TJ562	CARBON 0.25W 5% 5.6KΩ
R218	ERD25TJ153	CARBON 0.25W 5% 15KΩ
R221	ERQ14AJ560	FILM 0.25W5% Δ 56Ω
R245	EVUF3AM20B14	PICTURE CONTROL 10KΩ
R278	ERG1ANJ221	METAL 1W Δ 5% 220Ω
R279	ERG1ANJ221	METAL 1W Δ 5% 220Ω
R301	ERD25TJ152	CARBON 0.25W 5% 1.5KΩ
R309	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R315	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R316	ERD25TJ823	CARBON 0.25W 5% 82KΩ
R317	EVNDXAA00B54	SUB CONTRAST 50KΩ
R319	ERD25TJ563	CARBON 0.25W 5% 56KΩ
R321	EVNDXAA00B14	SUB BRIGHTNESS 10KΩ
R322	ERD25TJ563	CARBON 0.25W 5% 56KΩ
R324	ERD25TJ223	CARBON 0.25W 5% 22KΩ
R326	ERD25TJ101	CARBON 0.25W 5% 100Ω
R327	ERD25TJ121	CARBON 0.25W 5% 120Ω
R328	ERD25TJ332	CARBON 0.25W 5% 3.3KΩ
R330	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R331	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R335	ERDS1TJ471	CARBON 0.5W 5% 470Ω
R336	ERD25TJ473	CARBON 0.25W 5% 47KΩ
R337	ERD25TJ683	CARBON 0.25W 5% 68KΩ
R338	ERD25TJ102	CARBON 0.25W 5% 1.0KΩ

Ref No.	Part No.	Description	
R774	ERD25TJ104	CARBON 0.25W 5%	100KΩ
R802	ERF7ZK4R7	WOUND 7W 10%	4.7Ω
R803	ERDS1TJ564	CARBON 0.5W 5%	560KΩ
R810	ERQ1CJP3R3	FILM 1W 5% Δ	3.3Ω
R811	ERW12PKR27	WOUND 0.5W 5% Δ	0.27Ω
R812	ERG2ANJ470	METAL 2W Δ 5%	47Ω
R813	ERG1ANJ683	METAL 1W Δ 5%	68KΩ
R814	ERD75TAJ825	CARBON 0.75W 5%	8.2MΩ
R815	ERQ12HJ5R6	FILM 0.5W 5% Δ	5.6Ω
R816	ERD25TJ222	CARBON 0.25W 5%	2.2KΩ
R817	ERDS1TJ473	CARBON 0.5W 5%	47KΩ
R818	ERD25TJ124	CARBON 0.25W 5%	120KΩ
R820	ERDS1TJ393	CARBON 0.5W 5%	39KΩ
R821	ERDS1TJ393	CARBON 0.5W 5%	39KΩ
R822	ERDS1TJ473	CARBON 0.5W 5%	47KΩ
R851	ERQ12HJ1R2	FILM 0.5W 5% Δ	1.2Ω
R852	ERQ2CKPR47	FILM 2W 10% Δ	0.47Ω
R854	ERQ2CKPR33	FILM 2W 10% Δ	0.33Ω
R855	ERG3SJU180	METAL 3W Δ 5%	18Ω
R1101	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R1102	ERD25TJ330	CARBON 0.25W 5%	33Ω
R1103	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1104	ERD25TJ101	CARBON 0.25W 5%	10Ω
R1105	ERD25TJ223	CARBON 0.25W 5%	22KΩ
R1201	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1202	ERD25TJ221	CARBON 0.25W 5%	22Ω
R1203	ERD25TJ221	CARBON 0.25W 5%	22Ω
R1204	ERD25TJ101	CARBON 0.25W 5%	10Ω
R1205	ERD25TJ101	CARBON 0.25W 5%	10Ω
R1207	ERD25TJ221	CARBON 0.25W 5%	22Ω
R1209	ERD25TJ182	CARBON 0.25W 5%	1.8KΩ
R1210	ERD25TJ182	CARBON 0.25W 5%	1.8KΩ
R1211	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ
R1212	ERDS1TJ221	CARBON 0.5W 5%	22Ω
R1213	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1214	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1215	ERG2ANJ680	METAL 2W Δ 5%	68Ω
R1219	ERD25TJ182	CARBON 0.25W 5%	1.8KΩ
R1221	ERD25TJ471	CARBON 0.25W 5%	47Ω
R1222	ERD25TJ471	CARBON 0.25W 5%	47Ω
R1223	ERD25TJ471	CARBON 0.25W 5%	47Ω
R1224	ERD25TJ471	CARBON 0.25W 5%	47Ω
R1225	ERD25TJ471	CARBON 0.25W 5%	47Ω
R1226	ERD25TJ471	CARBON 0.25W 5%	47Ω
R1227	ERD25TJ471	CARBON 0.25W 5%	47Ω
R1229	ERD25TJ471	CARBON 0.25W 5%	47Ω
R1233	ERD25TJ105	CARBON 0.25W 5%	1.0MΩ
R1234	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1235	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1236	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ
R1237	ERDS1TJ121	CARBON 0.5W 5%	12Ω
R1238	ERD25TJ562	CARBON 0.25W 5%	5.6KΩ
R1239	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1240	ERD25TJ221	CARBON 0.25W 5%	22Ω
R1241	ERD25TJ221	CARBON 0.25W 5%	22Ω
R1251	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1252	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1253	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1254	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1255	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1256	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1257	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1258	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1259	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1261	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1262	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1263	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1264	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1265	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1266	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1267	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ
R1269	ERD25TJ221	CARBON 0.25W 5%	22Ω
R1270	ERD25TJ563	CARBON 0.25W 5%	56KΩ
R1271	ERD25TJ392	CARBON 0.25W 5%	3.9KΩ
R1273	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1274	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1276	ERD25TJ221	CARBON 0.25W 5%	22Ω
R1277	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1278	ERD25TJ104	CARBON 0.25W 5%	100KΩ
R1281	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1283	TSF19631	FUSABLE LINK Δ	
R1285	ERD25TJ473	CARBON 0.25W 5%	47KΩ
R1286	ERD25TJ473	CARBON 0.25W 5%	47KΩ
R1287	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ
R1289	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ
R1290	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R1291	ERD25TJ182	CARBON 0.25W 5%	1.8KΩ
R1295	ERD25TJ331	CARBON 0.25W 5%	33Ω
R1303	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1310	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ

Ref No.	Part No.	Description	
R1311	ERD25TJ393	CARBON 0.25W 5%	39KΩ
R1312	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1313	ERD25TJ332	CARBON 0.25W 5%	3.3KΩ
R1314	ERD25TJ473	CARBON 0.25W 5%	47KΩ
R1315	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1316	ERD25TJ101	CARBON 0.25W 5%	10Ω
R1317	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R1322	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R2101	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R2102	ERD25TJ153	CARBON 0.25W 5%	15KΩ
R2103	ERD25TJ824	CARBON 0.25W 5%	820KΩ
R2104	ERD25TJ183	CARBON 0.25W 5%	18KΩ
R2105	ERD25TJ561	CARBON 0.25W 5%	56Ω
R2106	ERD25TJ184	CARBON 0.25W 5%	180KΩ
R2110	ERD25TJ821	CARBON 0.25W 5%	82Ω
R2111	ERD25TJ470	CARBON 0.25W 5%	47Ω
R2112	ERQ14AJ330	FILM 0.25W 5% Δ	33Ω
R2113	ERD25TJ471	CARBON 0.25W 5%	47Ω
R2114	ERD25TJ471	CARBON 0.25W 5%	47Ω
R2115	ERD25TJ332	CARBON 0.25W 5%	3.3KΩ
R2117	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R2118	ERD25TJ562	CARBON 0.25W 5%	5.6KΩ
R2119	ERD25TJ562	CARBON 0.25W 5%	5.6KΩ
R2121	ERD25TJ681	CARBON 0.25W 5%	68Ω
R2122	ERD25TJ392	CARBON 0.25W 5%	3.9KΩ
R2123	ERD25TJ392	CARBON 0.25W 5%	3.9KΩ
R2124	ERD25TJ470	CARBON 0.25W 5%	47Ω
R2126	ERD25TJ470	CARBON 0.25W 5%	47Ω
R2128	ERD25TJ331	CARBON 0.25W 5%	33Ω
R2134	ERD25TJ471	CARBON 0.25W 5%	47Ω
R2137	ERD25TJ101	CARBON 0.25W 5%	10Ω
R2138	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R2140	ERD25TJ392	CARBON 0.25W 5%	3.9KΩ
R2141	ERD25TJ392	CARBON 0.25W 5%	3.9KΩ
R2146	ERD25TJ682	CARBON 0.25W 5%	6.8KΩ
R2147	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R2148	ERD25TJ331	CARBON 0.25W 5%	33Ω
R2149	ERD25TJ470	CARBON 0.25W 5%	47Ω
R2151	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ
R2152	ERD25TJ122	CARBON 0.25W 5%	1.2KΩ
R2153	ERD25TJ182	CARBON 0.25W 5%	1.8KΩ
R2154	ERD25TJ471	CARBON 0.25W 5%	47Ω
R2155	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R2156	ERD25TJ222	CARBON 0.25W 5%	2.2KΩ
R2157	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ
R2158	ERD25TJ332	CARBON 0.25W 5%	3.3KΩ
R2159	ERD25TJ182	CARBON 0.25W 5%	1.8KΩ
R2160	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R2161	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R2162	ERD25TJ101	CARBON 0.25W 5%	10Ω
R2163	ERD25TJ332	CARBON 0.25W 5%	3.3KΩ
R2164	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R2165	ERD25TJ181	CARBON 0.25W 5%	18Ω
R2166	ERD25TJ332	CARBON 0.25W 5%	3.3KΩ
R2167	ERD25TJ101	CARBON 0.25W 5%	10Ω
R2168	ERD25TJ101	CARBON 0.25W 5%	10Ω
R2169	ERD25TJ101	CARBON 0.25W 5%	10Ω
R2172	ERD25TJ331	CARBON 0.25W 5%	33Ω
R2201	ERD25TJ474	CARBON 0.25W 5%	470KΩ
R2202	ERD25TJ182	CARBON 0.25W 5%	1.8KΩ
R2203	ERD25TJ104	CARBON 0.25W 5%	100KΩ
R2204	ERD25TJ273	CARBON 0.25W 5%	27KΩ
R2205	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R2206	ERD25TJ562	CARBON 0.25W 5%	5.6KΩ
R2207	ERD25TJ563	CARBON 0.25W 5%	56KΩ
R2208	ERD25TJ224	CARBON 0.25W 5%	220KΩ
R2209	EVNDXAA00B52	STEREO ADJUST	50Ω
R2210	EVNDXAA00B32	BILINGUAL ADJUST	30Ω
R2211	ERD25TJ473	CARBON 0.25W 5%	47KΩ
R2212	ERD25TJ393	CARBON 0.25W 5%	39KΩ
R2213	ERD25TJ224	CARBON 0.25W 5%	220KΩ
R2214	ERD25TJ153	CARBON 0.25W 5%	15KΩ
R2215	ERD25TJ824	CARBON 0.25W 5%	820KΩ
R2220	ERD25TJ473	CARBON 0.25W 5%	47KΩ
R2221	ERD25TJ473	CARBON 0.25W 5%	47KΩ
R2224	EVNDXAA00B54	SEPARATION ADJUST	50KΩ
R2225	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R2226	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R2227	ERD25TJ223	CARBON 0.25W 5%	22KΩ
R2228	ERD25TJ471	CARBON 0.25W 5%	47Ω
R2230	ERD25TJ473	CARBON 0.25W 5%	47KΩ
R2231	ERD25TJ333	CARBON 0.25W 5%	33KΩ
R2232	ERD25TJ333	CARBON 0.25W 5%	33KΩ
R2235	ERD25TJ473	CARBON 0.25W 5%	47KΩ
R2236	ERD25TJ471	CARBON 0.25W 5%	47Ω
R2237	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R2240	ERQ14AJ330	FILM 0.25W 5% Δ	33Ω
R2241	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R2243	ERD25TJ271	CARBON 0.25W 5%	27Ω
R2247	ERD25TJ271	CARBON 0.25W 5%	27Ω

Ref No.	Part No.	Description		
R2256	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2257	ERD25TJ473	CARBON 0.25W 5%	47KΩ	
R2258	ERD25TJ473	CARBON 0.25W 5%	47KΩ	
R2259	ERD25TJ473	CARBON 0.25W 5%	47KΩ	
R2260	ERD25TJ333	CARBON 0.25W 5%	33KΩ	
R2261	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2262	ERQ14AJ100	FILM 0.25W 5% Δ	10Ω	
R2263	ERD25TJ682	CARBON 0.25W 5%	6.8KΩ	
R2264	ERQ12HJ470	FILM 0.5W 5% Δ	47Ω	
R2265	ERD25TJ223	CARBON 0.25W 5%	22KΩ	
R2266	ERD25TJ333	CARBON 0.25W 5%	33KΩ	
R2268	ERD25TJ153	CARBON 0.25W 5%	15KΩ	
R2269	ERD25TJ153	CARBON 0.25W 5%	15KΩ	
R2270	ERD25TJ563	CARBON 0.25W 5%	56KΩ	
R2271	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2272	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2273	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2301	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2305	ERD25TJ183	CARBON 0.25W 5%	18KΩ	
R2306	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2307	ERD25TJ101	CARBON 0.25W 5%	100Ω	
R2308	ERD25TJ223	CARBON 0.25W 5%	22KΩ	
R2310	ERD25TJ123	CARBON 0.25W 5%	12KΩ	
R2312	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2313	ERD25TJ153	CARBON 0.25W 5%	15KΩ	
R2314	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2315	ERD25TJ123	CARBON 0.25W 5%	12KΩ	
R2316	ERD25TJ223	CARBON 0.25W 5%	22KΩ	
R2317	ERD25TJ223	CARBON 0.25W 5%	22KΩ	
R2318	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2319	ERD25TJ153	CARBON 0.25W 5%	15KΩ	
R2320	ERD25TJ104	CARBON 0.25W 5%	100KΩ	
R2321	ERD25TJ101	CARBON 0.25W 5%	100Ω	
R2324	ERD25TJ101	CARBON 0.25W 5%	100Ω	
R2351	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2352	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2353	ERD25TJ331	CARBON 0.25W 5%	330Ω	
R2354	ERD25TJ101	CARBON 0.25W 5%	100Ω	
(On H PCB)				
R2354	ERD25TJ331	CARBON 0.25W 5%	330Ω	
(On K PCB)				
R2355	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2356	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2357	ERD25TJ104	CARBON 0.25W 5%	100KΩ	
R2358	ERD25TJ104	CARBON 0.25W 5%	100KΩ	
R2359	ERQ14AJ4R7	FILM 0.25W 5% Δ	4.7Ω	
R2360	ERQ14AJ4R7	FILM 0.25W 5% Δ	4.7Ω	
R2361	ERD25TJ274	CARBON 0.25W 5%	270KΩ	
R2362	ERD25TJ913	CARBON 0.25W 5%	91KΩ	
R2363	ERQ14AJ101	FILM 0.25W 5% Δ	100Ω	
R2364	ERD25TJ332	CARBON 0.25W 5%	3.3KΩ	
R2365	ERD25TJ332	CARBON 0.25W 5%	3.3KΩ	
R2366	ERF10ZK4R7	WOUND 10W 10%	4.7Ω	
R2367	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ	
R2368	ERD25TJ222	CARBON 0.25W 5%	2.2KΩ	
R2369	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ	
R2370	ERD25TJ222	CARBON 0.25W 5%	2.2KΩ	
R2401	ERD25TJ562	CARBON 0.25W 5%	5.6KΩ	
R2402	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2403	ERD25TJ153	CARBON 0.25W 5%	15KΩ	
R2408	ERD25TJ750	CARBON 0.25W 5%	75Ω	
R2418	ERD25TJ823	CARBON 0.25W 5%	82KΩ	
R2419	ERD25TJ562	CARBON 0.25W 5%	5.6KΩ	
R2420	ERD25TJ823	CARBON 0.25W 5%	82KΩ	
R2421	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2422	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2423	ERD25TJ101	CARBON 0.25W 5%	100Ω	
R2424	ERD25TJ101	CARBON 0.25W 5%	100Ω	
R2425	ERD25TJ823	CARBON 0.25W 5%	82KΩ	
R2426	ERD25TJ474	CARBON 0.25W 5%	470KΩ	
R2427	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ	
R2428	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ	
R2429	ERD25TJ562	CARBON 0.25W 5%	5.6KΩ	
R2430	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2431	ERD25TJ823	CARBON 0.25W 5%	82KΩ	
R2432	ERD25TJ823	CARBON 0.25W 5%	82KΩ	
R2433	ERD25TJ562	CARBON 0.25W 5%	5.6KΩ	
R2434	ERD25TJ474	CARBON 0.25W 5%	470KΩ	
R2435	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2436	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2437	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2438	ERD25TJ562	CARBON 0.25W 5%	5.6KΩ	
R2439	ERD25TJ474	CARBON 0.25W 5%	470KΩ	
R2440	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2441	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2442	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2443	ERD25TJ563	CARBON 0.25W 5%	56KΩ	
R2444	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2446	ERD25TJ153	CARBON 0.25W 5%	15KΩ	
R2447	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	

Ref No.	Part No.	Description		
R2448	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2449	ERD25TJ223	CARBON 0.25W 5%	22KΩ	
R2450	ERD25TJ750	CARBON 0.25W 5%	75Ω	
R2451	ERD25TJ823	CARBON 0.25W 5%	82KΩ	
R2452	ERQ12HJ4R7	FILM 0.5W 5% Δ	4.7Ω	
R2453	ERD25TJ221	CARBON 0.25W 5%	220Ω	
R2454	ERD25TJ221	CARBON 0.25W 5%	220Ω	
R2456	ERD25TJ393	CARBON 0.25W 5%	39KΩ	
R2457	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2458	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2459	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2460	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2461	ERD25TJ562	CARBON 0.25W 5%	5.6KΩ	
R2462	ERD25TJ562	CARBON 0.25W 5%	5.6KΩ	
R2463	ERD25TJ474	CARBON 0.25W 5%	470KΩ	
R2464	ERD25TJ474	CARBON 0.25W 5%	470KΩ	
R2465	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2466	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2467	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2468	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2469	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2470	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2471	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2472	ERD25TJ474	CARBON 0.25W 5%	470KΩ	
R2477	ERD25TJ224	CARBON 0.25W 5%	220KΩ	
R2478	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2479	ERD25TJ750	CARBON 0.25W 5%	75Ω	
R2480	ERD25TJ471	CARBON 0.25W 5%	470Ω	
R2481	ERD2FCG100P	CARBON 2%	10Ω	
R2482	ERD25TJ221	CARBON 0.25W 5%	220Ω	
R2483	ERD25TJ101	CARBON 0.25W 5%	100Ω	
R2484	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2485	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2486	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2487	ERD25TJ221	CARBON 0.25W 5%	220Ω	
R2488	ERD25TJ104	CARBON 0.25W 5%	100KΩ	
R2489	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2490	ERD25TJ221	CARBON 0.25W 5%	220Ω	
R2491	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2492	ERD25TJ104	CARBON 0.25W 5%	100KΩ	
R2493	ERD25TJ104	CARBON 0.25W 5%	100KΩ	
R2494	ERD25TJ680	CARBON 0.25W 5%	68Ω	
R2495	ERD25TJ153	CARBON 0.25W 5%	15KΩ	
R2602	ERD25TJ104	CARBON 0.25W 5%	100KΩ	
R2603	ERD25TJ104	CARBON 0.25W 5%	100KΩ	
R2604	ERD25TJ221	CARBON 0.25W 5%	220Ω	
R2605	ERD25TJ104	CARBON 0.25W 5%	100KΩ	
R2606	ERD25TJ221	CARBON 0.25W 5%	220Ω	
R2608	ERD25TJ750	CARBON 0.25W 5%	75Ω	
R2610	ERD25TJ750	CARBON 0.25W 5%	75Ω	
R2612	ERD25TJ750	CARBON 0.25W 5%	75Ω	
R2613	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2614	ERD25TJ750	CARBON 0.25W 5%	75Ω	
R2620	ERD25TJ101	CARBON 0.25W 5%	100Ω	
R2621	ERD25TJ750	CARBON 0.25W 5%	75Ω	
R2623	ERD25TJ681	CARBON 0.25W 5%	680Ω	
R2625	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2627	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2628	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R2629	ERD25TJ391	CARBON 0.25W 5%	390Ω	
R2631	ERD25TJ101	CARBON 0.25W 5%	100Ω	
R2632	ERD25TJ750	CARBON 0.25W 5%	75Ω	
R2633	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ	
R2634	ERQ12HJ8R2	FILM 0.5W 5% Δ	8.2Ω	
R2635	ERD25TJ471	CARBON 0.25W 5%	470Ω	
R2636	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R2638	ERD25TJ222	CARBON 0.25W 5%	2.2KΩ	
R2640	ERD25TJ471	CARBON 0.25W 5%	470Ω	
R2641	ERD25TJ333	CARBON 0.25W 5%	33KΩ	
R2656	ERD25TJ680	CARBON 0.25W 5%	68Ω	
R2660	ERD25TJ152	CARBON 0.25W 5%	1.5KΩ	
R2662	ERD25TJ152	CARBON 0.25W 5%	1.5KΩ	
R2663	ERD25TJ223	CARBON 0.25W 5%	22KΩ	
R2664	ERD25TJ223	CARBON 0.25W 5%	22KΩ	
R2665	ERD25TJ182	CARBON 0.25W 5%	1.8KΩ	
R2666	ERD25TJ684	CARBON 0.25W 5%	680KΩ	
R2667	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R3501	ERD25TJ221	CARBON 0.25W 5%	220Ω	
R3502	ERD25TJ392	CARBON 0.25W 5%	3.9KΩ	
R3503	ERD25TJ471	CARBON 0.25W 5%	470Ω	
R3504	ERD25TJ822	CARBON 0.25W 5%	8.2KΩ	
R3505	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R3506	ERD25TJ122	CARBON 0.25W 5%	1.2KΩ	
R3507	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R3508	ERD25TJ122	CARBON 0.25W 5%	1.2KΩ	
R3509	ERD25TJ122	CARBON 0.25W 5%	1.2KΩ	
R3510	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R3511	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ	
R3512	ERD25TJ103	CARBON 0.25W 5%	10KΩ	
R3513	ERD25TJ223	CARBON 0.25W 5%	22KΩ	

Ref No.	Part No.	Description	
R3514	EVNDCAA03B24	TELETEXT CONTRAST	20KΩ
R3515	ERD25TJ392	CARBON 0.25W 5%	3.9KΩ
R3516	ERD25TJ153	CARBON 0.25W 5%	15KΩ
R3517	ERD25TJ220	CARBON 0.25W 5%	22Ω
R3519	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R3520	ERD25TJ821	CARBON 0.25W 5%	820Ω
R3522	ERD25TJ332	CARBON 0.25W 5%	3.3KΩ
R3523	ERD25TJ471	CARBON 0.25W 5%	470Ω
R3524	ERD25TJ683	CARBON 0.25W 5%	68KΩ
R3525	ERD25TJ331	CARBON 0.25W 5%	330Ω
R3526	ERDS1TJ1R0	CARBON 0.5W 5%	1.0Ω
R3532	ERD25TJ332	CARBON 0.25W 5%	3.3KΩ
R3533	ERD25TJ331	CARBON 0.25W 5%	330Ω
R3534	ERD25TJ750	CARBON 0.25W 5%	75Ω
R3535	ERD25TJ750	CARBON 0.25W 5%	75Ω
R3536	ERD25TJ750	CARBON 0.25W 5%	75Ω
R3541	ERD25TJ101	CARBON 0.25W 5%	100Ω
R3542	ERD25TJ101	CARBON 0.25W 5%	100Ω
R3552	ERD25TJ101	CARBON 0.25W 5%	100Ω
R3558	ERD25TJ471	CARBON 0.25W 5%	470Ω
R3559	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3560	ERD25TJ561	CARBON 0.25W 5%	560Ω
R3561	ERD25TJ392	CARBON 0.25W 5%	3.9KΩ
R3562	ERD25TJ122	CARBON 0.25W 5%	1.2KΩ
R3563	ERD25TJ753	CARBON 0.25W 5%	75KΩ
R3564	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ
R3565	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R3566	ERD25TJ823	CARBON 0.25W 5%	82KΩ
R3567	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ
R3568	ERD25TJ822	CARBON 0.25W 5%	8.2KΩ
R3582	ERD25TJ103	CARBON 0.25W 5%	10KΩ
R3590	ERD25TJ101	CARBON 0.25W 5%	100Ω
R3591	ERD25TJ101	CARBON 0.25W 5%	100Ω
R3592	ERD25TJ101	CARBON 0.25W 5%	100Ω
R3593	ERD25TJ101	CARBON 0.25W 5%	100Ω
R3594	ERD25TJ473	CARBON 0.25W 5%	47KΩ
R3595	ERD25TJ473	CARBON 0.25W 5%	47KΩ
R3596	ERD25TJ472	CARBON 0.25W 5%	4.7KΩ
R3598	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3599	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3601	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3603	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3604	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3607	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3609	ERD25TJ101	CARBON 0.25W 5%	100Ω
R3610	ERD25TJ101	CARBON 0.25W 5%	100Ω
R3612	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3613	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3614	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3619	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3621	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3623	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ
R3624	ERD25TJ102	CARBON 0.25W 5%	1.0KΩ

Ref No.	Part No.	Description
SWITCHES		
S251	ESD2760	SWITCH
S301	EVQR1AL13	SWITCH
S801	ESB99267S	SWITCH
S1201	EVQQSC11G	SWITCH
S1207	EVQQSC13K	SWITCH
S1208	EVQQSC13K	SWITCH
S1209	EVQQSC11G	SWITCH
S1213	EVQQSC13K	SWITCH
S1215	EVQQSC11G	SWITCH
S1218	EVQQSC13K	SWITCH
S1220	EVQQSC13K	SWITCH
S1222	EVQQSC13K	SWITCH
S1223	EVQQSC11G	SWITCH
S1228	EVQQSC11G	SWITCH
S1229	ESB64605	SWITCH
S1230	ESB64605	SWITCH
S1231	EVQQSC13K	SWITCH
S1232	EVQQSC13K	SWITCH
S1233	EVQQSC13K	SWITCH
S1234	EVQQSC13K	SWITCH
S1235	EVQQSC13K	SWITCH
S1236	EVQQSC13K	SWITCH
TRANSFORMERS		
T531	ETH19Y53AY	TRANSFORMER
T551	TLF15542F	TRANSFORMER
T801	ETS49K422A	TRANSFORMER
T1201	ETP35KE65E	TRANSFORMER
FILTERS		
X101	SW174A	FILTER
X102	EFOA500KS5A	FILTER
X103	EFCS5R5MW3	FILTER
X104	EFOA6R5MB3	FILTER
X105	EFCS6R0MW3	FILTER
X171	TSS120M2	CRYSTAL
X601	TSS2003-M	CRYSTAL
X671	TLK66056-1	TRANSFORMER
X1201	TSS2077-M	CRYSTAL
X2101	EFCS5R5MS3	FILTER
X2102	EFCS5R5MS4	FILTER
X2103	EFCS5R74MS4A	FILTER
X2104	EFCS5R74MS4A	FILTER
X2105	EFCS6R0MS4	FILTER
X2106	TFCH389VK09	FILTER
X2107	EFCS6R0MS4	FILTER
X2108	EFOA6R0MB3	FILTER
X2151	TFCH324SK02	FILTER
X3501	TSS2004-M	CRYSTAL
X3504	TFOA6R0M02A2	CRYSTAL
X3505	TSS2080-MX	CRYSTAL